

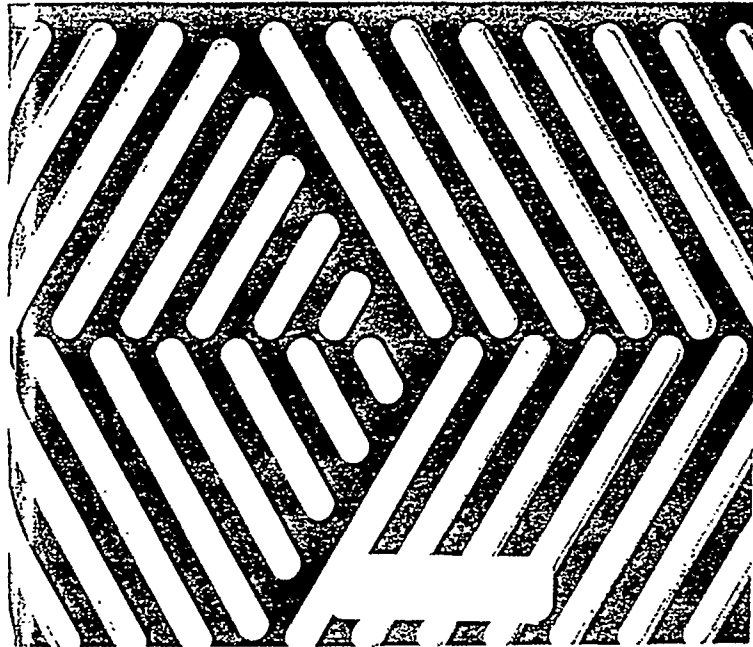
August 1972

ASBESTOS

Devoted to the International Asbestos Industry

— Featuring —

History of Asbestos Textile Institute (Part 1)
"Robalit 61" Suction Box Covers



PUTTEN'S ASBESTOS CORPORATION

All types and grades of Asbestos Fibres:

CHRYSTILE • CROCIDOLITE (BLUE)
AMOSITE • ANTHOPHYLLITE

Head Office:

PUTTEN'S ASBESTOS CORPORATION OF SOUTH AFRICA (PTY) LTD.,

Third Floor, General Mining Building
6, Hollard Street, P.O. Box 7167
Johannesburg, Republic of South Africa

Tel. ADD. "EURAF" Johannesburg — Telex: 43-7577SA
Telephone: 838-6354

CAPCO JEN 0003413

ASBESTOS

VOLUME 54

AUGUST 1972

NUMBER 2

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

CONTENTS

HISTORY OF U.S. ASBESTOS TEXTILE INDUSTRY— CHAPTER XXVI: ASBESTOS TEXTILE INSTITUTE ..	2
THE COVER	12
NEW MATERIAL REPLACES STEEL IN SUCTION BOX COVERS	14
ASBESTOS-BASED PRODUCTS	16
INDUSTRIAL HEALTH/POLLUTION CONTROL	18
MARKET CONDITIONS—GENERAL BUSINESS	20
CONSTRUCTION NEWS	22
MOTOR VEHICLE FACTORY SALES	22
PRODUCTION—IMPORTS—EXPORTS	24
BIRTHDAY GREETINGS	36
PAUL J. SMITH HONORED	38
NOTES FROM 1971 ANNUAL REPORTS	40
MEN ON THE MOVE	44
ASBESTOS STOCK QUOTATIONS	46
ASTM STANDARDS	46
NEW ASBESTOS PATENTS	48
CALENDAR OF EVENTS	50
REMEMBER WHEN?	52

ASBESTOS is indexed regularly by Engineering Index, Inc.

Microfilms of back issues may be obtained from University Microfilms, 300
North Zeeb Road, Ann Arbor, Michigan 48106.

PROPRIETOR: Stover Publishing Company

EDITOR: Doris M. Fagan

PUBLISHER: Carrell J. Stover

Copyright 1972 Stover Publishing Company

Second Class Postage Paid at Willow Grove, Pennsylvania, U.S.A.

SUBSCRIPTIONS RATES—United States, \$4.00 per year; All Other Countries,
add \$1.00 for postage; Current Copies, 35 cents each; Back Copies, 50 cents
each; payable in U.S. Funds to: ASBESTOS, 131 North York Road (P. O. Box
471) Willow Grove, Pennsylvania 19090. Telephone: (215) 659-0134

ASBESTOS—August 1972

Page 1

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 I

In the writer's opinion, the founding of the Asbestos Textile Institute is the single most important event in the History of the Asbestos Textile Industry in the United States. It, therefore, seems fitting that the story of the founding of the industry's own trade association conclude this history of the asbestos textile industry.

In 1944 L. R. Hoff was President of Johns-Manville Sales Corporation. It was Roy Hoff who perceived the need for an industry trade association and it was he who sold the various company Presidents on the advantages to be gained in the establishment of the Asbestos Textile Institute. There is no question but what Roy Hoff was the father of ATI.

An organizational meeting was held at the University Club in New York City on November 16, 1944. Eleven asbestos textile manufacturers were represented, as follows:

Asbestos Textile Co.—Thomas L. Gatke;
J. Franklin Burke & Co.—J. Franklin Burke;
Carolina Asbestos Co.—C. H. Carlough;
Garlock Packing Co.—George Abbott;
Johns-Manville Corporation—L. R. Hoff, F. J. Wakem and A. L. Fisk, Jr. (Attorney);
Kearsley & Mattison Co.—E. Muehleck and Wm. C. Scott;
Philadelphia Asbestos Co.—E. K. Tuebner, Jr., and A. J. Scanlan;
Raybestos-Manhattan, Inc.—J. F. D. Rohrbach and G. W. Marshall, Jr.;
Southern Asbestos Co.—F. E. Schluter and G. S. Fabel;
Union Asbestos & Rubber Co.—L. L. Cohen and R. Wilde;
United States Rubber Co.—H. G. Smith and H. E. Sunbury.

A constitution and by-laws were adopted at the ATI organizational meeting. The stated purposes of the Asbestos Textile Institute, as enumerated in its constitution, are as follows:

1. To promote ethical business standards in the industry and fair trade practices in dealings between manufacturers and the trade and in representations to the public.

CAPCO JEN 0003415

Asbestos

Vital at all the stops along the way.

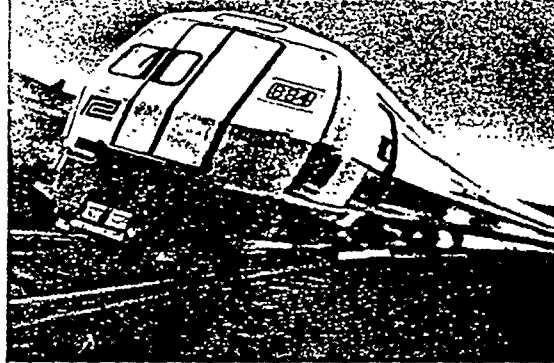
At speeds of up to 100 mph, Amtrak's New York-Washington, D.C. Metroliner needs all the stopping power it can get. So hard-working asbestos is used in the brake shoes on this cannonballing express.

Tough, lightweight, incombustible asbestos is a unique material. Indispensable for hundreds of protective uses—in industry, in homes and public buildings, in cars and trucks and trains, on ships, even on spacecraft.

Without asbestos, life for all of us would be a lot more hazardous.

For information on how asbestos can help you, contact your local J-M representative or the Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville Asbestos Fibre Sales, Box 159, Manville, New Jersey 08835 U.S.A.

Johns-Manville 



2. To lawfully promote the following activities:

- (a) The development of standards through research, practical tests, and other available means, the application of which by individual manufacturers, will insure a proper measure of quality in each of the Industry's products.
- (b) The development through research and other means of new uses and markets for the Industry's products, resulting in increased consumption and a grading up of the Industry's products through the sale of better quality asbestos textile materials.

3. To lawfully promote and foster such Industry policies and programs as will tend:

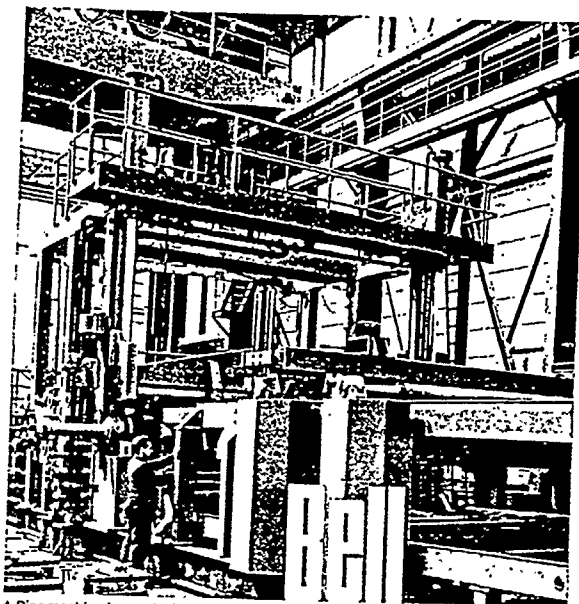
- (a) To cultivate the good will of engineers, distributors, manufacturers, and the consuming public, and to improve their acceptance of the Industry's products.
- (b) To develop a more creative selling by the Industry's salesmen, and to instill among such salesmen an attitude of courageous aggressiveness in combating attacks upon the Industry, its Members and its products.
- (c) To promote Industry welfare through cooperative research, improved manufacturing, selling and distribution methods.
- (d) To cooperate in maintaining open, free, unrestrained and equitable competition in a manner consistent with the laws of the United States.

4. To act as a clearing house in the collection and dissemination of lawful information and statistics in respect to production, orders, shipments, stocks on hand, costs, credits, freight rates, employment, and such other matters as may be of value to the different manufacturers and the trade. No Member shall be required to furnish or receive any such information.

The members of the first Board of Governors of the Asbestos Textile Institute were elected November 16, 1944, as follows: George S. Fabel, Southern Asbestos Co.; George W. Marshall, Jr., Raybestos-Manhattan, Inc.; William C. Scott, Keasbey & Mattison Co.; Edmund R. Teubner, Philadelphia Asbestos Co.; and Francis J. Wakem, Johns-Manville Corporation. The Board of Governors then elected the following officers: C. Herbert Carlough as President, George W. Marshall, Jr., as Vice President and William C. Scott as Treasurer.

At the organizational meeting, the members retained F. Sims McGrath, of Cadwalader, Wickersham & Taft, as legal counsel. This prestigious New York law firm has represented ATI ever since that time. The presently assigned counsel is Wendell B. Alcorn.

West Flint & Co. were retained as Independent Accountants November 16, 1944. It was their function to compile industry production figures each calendar quarter and to report to each manufacturer his percentage of the total by



A Pipe machine for producing pressure pipes.

Bell Engineering Works Ltd.
CH—6010 Kriens / Lucerne
Telex 78 167 bell ch
Switzerland

Manufacturer of Asbestos Cement Machines

Slurry preparation equipment

Sheet machines

Stamping presses for cutting slates

Stacking presses for high density sheets

Cross conveyors

Corrugators

Pipe machines for high pressure pipes

Pipe and socket lathes

Cutting-off lathes

Presses for water pressure test

Auxiliary Equipment

Watering vacuum pumps

Experience for decades are
guarantee of well-devised
and reliably working machines

product categories. The reporting form adopted was the same as that prescribed by the War Production Board during World War II and, in fact, is still being used by the industry.

The first quarterly meeting of ATI was held March 20, 1945. The Board of Governors engaged Harris D. McKinney as Manager and Assistant Treasurer. Mr. McKinney was President of Harris D. McKinney Inc., an advertising agency that specialized in the management of trade associations. The agency now operates from offices in Philadelphia, Pa., and Cleveland, Ohio, and handles many industrial accounts.

Also on March 20th the Chase National Bank was designated the depository of Institute funds.

On July 25, 1945, Manager McKinney outlined "A Primer on Asbestos Textiles." The 28-page booklet was subsequently printed and distributed to familiarize students with the properties and uses of asbestos fiber and asbestos textiles.

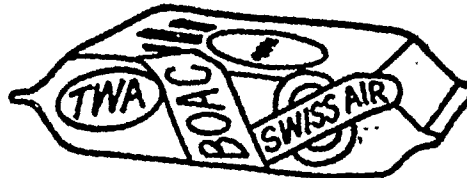
On October 16, 1945, a joint meeting was held in Sherbrooke, Quebec, Canada, by ATI and the Quebec Asbestos Mining Association (QAMA). Five mines and four asbestos textile manufacturers were represented. This was the start of a program which has resulted in substantially improved quality and grading of asbestos fiber over the years. In addition, lowered dust count in the fiber has resulted in better yields and in improved working conditions in the asbestos textile mills.

From time to time, various committees were appointed to carry forward the stated objectives of the Association. At the December 1945 conference, William S. Acuff, Sales Manager for Keasbey & Mattison, was appointed the first Chairman of the Sales Promotion Committee. Most ATI committees became permanent standing committees of the Institute, with rotating chairmen and membership.

At this same conference, Robert E. Cryor, then with Union Asbestos & Rubber Co. (now Unarco Industries, Inc.), gave a most informative report on his inspection trip to German and other European asbestos textile mills. Mr. Cryor's tour was under the auspices of the U.S. Army and he had been commissioned a Colonel for the duration of his stated activity.

On December 12, 1945, Malcolm I. Ruddock attended his first ATI conference as the representative of Cadwalader, Wickersham & Taft. At each succeeding conference Malcolm Ruddock reviewed a current law case which he con-

The Worldly Asbestos



Carey-Canadian Mines, Ltd., one of the world's largest producers of asbestos fibre, can serve your needs around the world. Overseas sales agents are listed below. Additional information may be obtained by writing to

Dept. ASB872, Carey-Canadian Asbestos,
Division of Panacorp Corp., P.O. Box 15070,
Cincinnati, Ohio 45215.

CAREY.

Mt. Waverly, Victoria, Australia	K. V. Robinson & Ass. Pty., Ltd.
Wien, Austria	Robert Wiesz
Copenhagen, Denmark	Andreas Jennow A/S
London, England	Central Asbestos Company, Ltd.
Helsinki, Finland	Oy Max Aue
Paris, France	G. Devineau, S.A.
Duisburg, Germany	Deutsche Asbest-Gesellschaft G m b H.
Lubeck, Germany	Posselt Erzkonz.
Athens, Greece	A. D. Papachristopoulos & Company
Calcutta, India	Expert Agency Service Private, Ltd.
Tel-Aviv, Israel	K. J. Deutsch
Torino, Italy	Franco Rot
Tokyo, Japan	T. Kakuuchi & Company, Ltd.
Seoul, Korea	Bryony Corporation
Mexico City, Mexico	Productos Quimicos Mardupol, S.A.
Haarlem, Netherlands	Chemische Productenhandel J. J. Van De Vrande
Auckland, C.I., New Zealand	Neill, Cropper & Company, Ltd.
Ponce, Puerto Rico	Porto Rico Iron Works
Buenos Aires, Argentina, S.A.	Will L. Smith, S.A.
Sao Paulo, Brazil, S.A.	ICI-Intercambia Commercial International Ltda.
Barranquilla, Colombia, S.A.	General Sales Corp. Ltda.
Lima, Peru, S.A.	Ralph W. Gutierrez
Valencia, Spain	Guzman, S.A.
Stockholm, Sweden	N. AS Nicola Johannasen
Caracas, Venezuela	Ing. N. Sekler Y Asociados S. R. L.

sidered pertinent to the asbestos textile industry. His untimely death on June 18, 1961, was a great loss to CW&T and to the asbestos textile industry.

On June 13, 1946, the initial conference of the ATI Dust Control Committee was called by the Committee's first Chairman, Ernest Muehleck, then President of K&M. The members of the Committee discussed procedures for exhausting, collecting and measuring asbestos dust. This was the start of a highly beneficial program which is still carried forward by ATI's Air Hygiene & Manufacturing Committee.

On December 12, 1946, Jesse M. Weaver, Chairman of the Technical Committee, recommended the establishment of a Research Fellowship at Rutgers University. He also recommended the employment of Dr. Myril C. Shaw as Research Fellow. Both recommendations were approved and the Technical Committee was given responsibility for the direction and supervision of the Fellowship. Dr. Shaw's laboratory was actually in the Ceramics Department of the Rutgers University Laboratory. For years, the Ceramics Laboratory had specialized in high temperature work and was well equipped to undertake high temperature testing of asbestos textiles under Dr. Shaw's direction. In subsequent years, Jesse Weaver served several terms as Chairman of the ATI Technical Committee and did as much as any man to direct the Fellowship along productive lines.

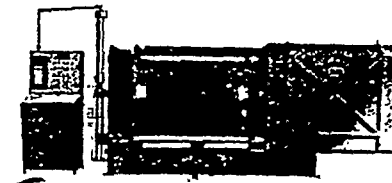
During World War II wages and prices of all products were "frozen." On December 12, 1946, Manager Harris McKinney notified all members of the industry that the Office of Price Administration (OPA) had removed the price ceilings on industry products.

At the June 1948 conference, Harris McKinney resigned as Manager of ATI and Dr. Shaw was appointed Executive Secretary and Assistant Treasurer, in addition to his duties as Research Fellow.

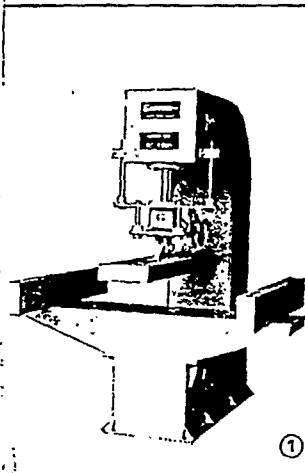
At the May 1949 conference, the Sales Promotion Committee presented the first Visual Aid Display. This was an illuminated cabinet outlining the origin and uses of asbestos textiles. The promotional piece met with such enthusiastic acceptance that six additional cabinets were ordered. Over the next several years, the cabinets were on short-term display at most of the technical colleges in the U.S.

In March 1950, Dr. Shaw demonstrated the Abrado-

- ①
Bending and
crushing test
press for
sheet and
pipes



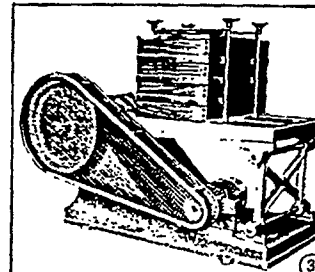
②



①

- ② Bursting test press
for pipes

- ③ Classifier for
testing asbestos
fibres



③

Asbestos-cement testing machines
designed and manufactured by:

SALVANESCHI S.p.A.
VIA ROMA, 27-27043 BRONI (PV) ITALY - TELEF. 51.024

CAPCO JEN 0003422

Flex machine which he had developed. This instrument measures the comparative resistance of asbestos cloths to frictional wear, and simultaneously their resistance to flexing. The Abrado-Flex machine simulates the two factors which generally determine the useful life of an asbestos textile in normal service.

In April 1951, the publication of a new four-page booklet was authorized. Twenty-eight-thousand copies of "The Story of Asbestos Textiles" were printed, with distribution principally to high schools and elementary schools.

In December 1951, the Constitution and By-Laws of ATI were amended to permit the inclusion of associate members. At the March 1952 conference, applications from two asbestos mines and from two asbestos textile manufacturers were approved: Asbestos Corporation Ltd., English Asbestos Co. Ltd., The Johnson's Co. Ltd. and Small & Parkes Ltd. Invitations for membership were also sent to Bell Asbestos Mines Ltd., The Cape Asbestos Co. Ltd., British Belting & Asbestos Ltd. (now BBA Group Ltd.) and Turner Brothers Asbestos Co. Ltd. All of these long-established members of the industry subsequently joined the Asbestos Textile Institute.

The October 1952 conference authorized the printing of the first "Handbook of Asbestos Textiles." The 78-page pamphlet combined product illustrations and data borrowed from the catalogs of various members of the industry. It also offered basic information and performance charts on asbestos textiles which had been developed by Dr. Shaw in the Fellowship Laboratory at Rutgers. Ten-thousand copies of the Handbook were printed in September 1953.

In March 1954, it was determined that Dr. Shaw had concluded just about all the test programs he could accomplish with the facilities available to him at Rutgers. It was, therefore, decided to transfer the Fellowship and Dr. Shaw to the Philadelphia Textile Institute (now the Philadelphia College of Textiles and Science), effective September 1954.

It was decided in September 1955 to purchase a most elaborate exhibit of asbestos textiles and their uses. This was to be an extension of the successful sales campaign provided by the seven smaller display cabinets purchased in 1949. The new exhibit consisted of four large illuminated display cabinets to be shown as one unit. During the next

BELL ASBESTOS MINES LTD.
THETFORD MINES, QUE.
CANADA



Producers of
Raw Asbestos Crudes
& Fibres



Sales Representatives
for
Cassiar Asbestos Corporation Limited

several years, the educational exhibit was loaned to numerous engineering colleges and technical schools. It was indeed a credit to the industry and to the Asbestos Textile Institute.

The June 5-7, 1956, conference was a gala event in the history of ATI. It was the first quarterly meeting to be held at Thetford Mines, Quebec, Canada. The Quebec Asbestos Mining Association (QAMA) hosted the event and it was a most informative and educational experience for all delegates who attended. Members had a choice of going underground into the Bell Mines (owned by Turner & Newall) or the King Mine (one of the properties of Asbestos Corporation). Smaller groups also visited several of the open pit mines. The hosts provided a memorable banquet at the Thetford Golf Club.

Part 2 of the "Highlights in the History of the Asbestos Textile Institute" will appear in the next issue.

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.

THE COVER

Suction box covers in a herringbone pattern are used in asbestos cement machinery. Made of a synthetic material instead of steel, the covers were developed by Messrs. Leripa, of Austria, and are marketed under the "Robalit 61" trade name. Turn to page 14 for the complete story.



...for Dryer Felt manufacturers

Dryer felts have got to be tough. So UNIROYAL developed extra tough asbestos yarns for the dryer felt industry that could be woven into felts capable of standing up under all the stresses and temperatures the users could muster.

If you're looking for an asbestos yarn engineered for stability and wear resistance, ask us for specifications. It's so good we don't call it asbestos. We call it ASBESTON®, which is another word for dependability.

UNIROYAL FIBER & TEXTILE
350 Columbia Road
Winnsboro, S.C. 29180

ASBESTOS—August 1972

Page 13

CAPCO JEN 0003426

NEW MATERIAL REPLACES STEEL IN SUCTION BOX COVERS

Ever since asbestos cement articles were first produced on machines similar to papermaking machines, there has been continuous effort to improve the process. Much work has gone into improvement of the basic machines and the felts on which their operation depends. As is so often the case, little thought was given to the improvement of a vital part of the machines, namely the suction box covers.

Vacuum box covers play an important role in an asbestos cement machine since the friction between the felt and cover is high and a substantial portion of the power required to drive the machine is used in overcoming this friction. For many years the accepted material for covers and strips was steel. However, steel created relatively high friction and tended to develop razor-sharp edges that could cause damage to the felt.

A synthetic material having an ultra-high molecular weight and alloyed with the lubricating agent Molykote (Molybdenum Disulphide) was developed in Austria by Messrs. Leripa, Leder- und Riemen-Patentverwertungs-ges.m.b.H. for use as suction box covers on paper machines. This material, called "Robalit 61," was then successfully applied by Leripa to asbestos cement machines and it is now used in over 40 countries as a suction box cover on such machines.

What makes the product so eminently suitable as a suction box cover material? Robalit 61 shows great resistance against abrasion due to its ultra-high molecular weight and, because of its extremely low coefficient of friction, it offers a plane gliding surface to the felt. As a result, felt life is increased and driving power requirements drop by about one-third. Moreover, Robalit 61 is easy to machine and covers of any desired perforation pattern are offered at no extra cost.

Herringbone patterns (see the front cover of this issue) have proved to be superior to other patterns as they have a beneficial stretch-out effect on the felt. As the felt is guided along the edges of the diagonal slots, it is stretched in the cross direction thus avoiding a narrowing effect and prevent-

ing folds. As a result, there is no vacuum loss at the cover ends, the sheet is much drier at the edges, and felt abrasion and formation of carbonate particles are minimized.

Robalit 61 is chemically-immune and corrosion-resistant and cleaning is no problem. Its affinity to cement is much less than that of steel.

Installation is easy. A simple method, used in many plants, is to insert the cover into a grid frame with lateral supports. Clamps or bolts are not necessary as the vacuum beneath the felt maintains the cover in position. This arrangement allows for a quick change of the cover, if need be, as well as for easy cleaning.

Leripa, in cooperation with felt and asbestos cement machine manufacturers, has compiled comprehensive reference data giving details of a number of interesting Robalit 61 installations. Costs frequently are recovered in a few months' time from savings which are the result of the increased life of as few as 2 or 3 felts.

FOR FURTHER INFORMATION, CONTACT LERIPA AT MARIAHILFERSTRASSE 135, A-1151 VIENNA, AUSTRIA, OR ITS U.S. REPRESENTATIVE, MINERALS & ASBESTOS CORPORATION, P. O. BOX 1204, PORT CHESTER, NEW YORK 10573.

Producers and Exporters
of

SOUTH AFRICAN RAW ASBESTOS FIBRES

VALLEY ASBESTOS (PTY) LTD.

P. O. BOX 9131

VOLKSKAS BUILDING · 76 MARKET STREET
JOHANNESBURG — Republic of South Africa

— — — — —
We are represented in most European Countries,
also in U.S.A., Japan and Far East.

CERTAIN-TEED SIDING BOOKLET

Copies of "How to Avoid the \$8000 Mistake" are available from Certain-teed Products Corporation, Valley Forge, Pennsylvania. The new consumer booklet details both the advantages and disadvantages of today's most popular exterior home siding materials: asbestos, aluminum, steel, vinyl, wood and insulated siding. It also gives the homeowner tips on what to consider when choosing a residing product.

FERODO FLOORING MATERIAL

A new hard-wearing, anti-slip flooring material was recently launched by Ferodo Ltd., Chapel-en-le-Frith, Stockport, England. The new deck tread is a flexible molded asbestos/resin material developed by Ferodo for use where a high density of pedestrian traffic exists or for industrial applications where its water- and chemical-resistant characteristics prove particularly valuable. One of the advantages of deck tread lies in its having a high level of friction which is retained even when wet. It also has a high resistance to indentation and can withstand pressures of up to 8000 lbs. psi (562 kg/sq cm).

LITERATURE FROM JOHNS-MANVILLE

Johns-Manville Corporation, Denver, Colorado, recently issued a set of Technical Bulletins to describe and illustrate its complete line of sheet gasketing materials. The literature covers over twenty sheet gasketing materials including J-M's extremely thin asbestos paper No. 747 and its compressed white Chrysotile asbestos acid-resistant sheet No. 86A . . . AFD-21A is a six-page folder that uses tables and photographs to describe asbestos-asphalt surface overlays and paving . . . Brochure No. TR600A was prepared by J-M to describe the use of Transite asbestos-cement "T" pipe for use in agricultural irrigation systems . . . "Pipes & Fittings" is the title of Booklet TR112A which gives data on the company's complete line of pipe products including Transite asbestos-cement pipe, PVC plastic pipe, pre-insulated pipe and glass-fiber-reinforced plastic pipe and fittings.

ASBESTOS SHORTS

HIGH-BULKING, EASILY DISPERSED FOR ROOF COATINGS

Because our ASBESTOS SHORTS are "clean", they disperse rapidly in asphalt and other materials . . . save you production time.

GRIT- AND WHISKER-FREE FOR SPRAYED UNDERCOATINGS

Careful quality control ensures that our ASBESTOS SHORTS are free of grit and other minute particles that clog spray equipment.

If you reinforce polyester molding compounds, try our 7T SHORTS. They disperse well and have low resin demand. For more information or for test samples of our fibres, write to: Lake Asbestos of Quebec, Ltd., P.O. Box 608, Black Lake, Quebec, Canada.

SALES AGENTS

ARGENTINA, Buenos Aires
"Insud" Cia. Sudamericana
de Industria y Comercio S.A.

BRAZIL, Rio de Janeiro
Sao Paulo "Brasimet" Comercio
e Industria S.A.

CALIFORNIA, Los Angeles
A. J. Lynch & Co.

CANADA, Montreal
Federated Genco Ltd.

CANADA, Toronto
Federated Genco Ltd.

COLOMBIA, Bogota
Holanda, Colombia, S.A.

ILLINOIS, Chicago
Jensen-Souders and Assoc., Inc.

MASSACHUSETTS, Allston
D. H. Litter & Co., Inc.

MEXICO, Mexico City
Asarco Mexicana, S.A.

MICHIGAN, Detroit
Baker & Collinson

NEW YORK, New York
D. H. Litter & Co., Inc.

OHIO, Cleveland
A. C. Mueller Co., Inc.

PENNSYLVANIA, Conshohocken
Van Horn, Metz & Co., Inc.



LAKE ASBESTOS OF QUEBEC, LTD.

A subsidiary of American Smelting and Refining Company

LAKE ASBESTOS

CAPCO JEN 0003430

INDUSTRIAL HEALTH / POLLUTION CONTROL

DCE UNITS AT EXPANDITE FACTORY

A new dust control plant serving two lines of asbestos rope braiding machines has been installed by Dust Control Equipment Ltd. of Thurmaston, Leicester, England, at the Bracknell factory of Expandite Ltd., a member of the Burmah Group of companies. The plant consists of eight DCE Unimaster dust control units linked to a common fan to provide exhaust and filtration for the braiding machines. Each Unimaster is equipped with a special secondary filter designed and manufactured by DCE so that the cleaned air can be safely retained in the factory. The dust container of each unit is lined with a plastic bag to facilitate the hygienic removal and disposal of the collected dust.

INSULATION HYGIENE PROGRESS REPORTS

The Spring 1972 issue of IHPR, published by the Insulation Industry Hygiene Research Program, advises of an effective, economical dust collector for use with band saws, other powered equipment and for general clean-up. Environmental tests were made on the machine at the factory of Howard Forrest Co. in Houston, Texas, and all measurements taken showed dust levels to be less than one fiber per milliliter (longer than five microns) during fifty cuts on the material over a ten-minute period of time. Also in this issue are excerpts from the Emergency Asbestos Dust Standard published December 7, 1971, and descriptions of four disposable respirators that are said to provide useful respiratory protection for asbestos workers during virtually all insulation work, except in the spraying of asbestos or the removal of old insulation which require the wearing of air-supplied respirators.

The Summer 1972 issue of IHPR contains various articles concerned with the proposed asbestos dust standard announced by OSHA on June 7, 1972 (see July 1972 ASBESTOS). This edition also lists the cautions essential in the use of all insulation material and reports the findings from a survey of dust counts on construction jobs.

50 YEARS OF EXPERIENCE

in the field of machinery
for asbestos-cement products



RIVA - CALZONI S.p.A.

Company's Capital: 3.000.000.000 Lire

Products of the
stabilimento CALZONI

Via Emilia Ponente, 72
BOLOGNA, Italy
Telex: 51156 CALZONI
Telephone: 384631



ASBESTOS—August 1972

Page 19

CAPCO JEN 0003432

MARKET CONDITIONS

GENERAL BUSINESS

The biggest news in July was political rather than economic, when Senator George McGovern won the Democratic nomination for President of the United States on the first ballot of the party's convention in Miami. The apparent ease with which the nomination was won can be somewhat misleading as to the vote-getting power of the candidate when election day rolls around. For example, while certain party leaders who bitterly opposed the McGovern candidacy have since pledged him their full support, for the first time in many years labor leaders have failed to unanimously endorse the Democratic candidate. At least one large union has declared for President Nixon and the AFL-CIO President, George Meany, has assumed a neutral position. Due to several rather radical proposals made by the candidate prior to his nomination, businessmen in general are quite concerned about what might happen should the Senator wage a successful campaign for the Presidency. This concern, according to some analysts, may be part of the cause of a slow but persistent decline in the stock market which has failed, as yet, to show any signs of starting its traditional mid-summer rally. Truth to tell, the market action seems to be baffling even to the "experts," since corporate earnings show general improvement and there are no pronounced signs that the steady rise in business activity is coming to a halt. On the other hand, the fact remains that many businesses are still in the doldrums caused by earlier cutbacks in the aerospace industry and their rate of recovery is lagging behind that of many larger, consumer-oriented concerns. This makes for a lack of confidence in certain sectors of the economy which is keeping the brakes on anything resembling a runaway boom.

Have you ordered your copy of

"The Asbestos Factbook"?

Page 20

ASBESTOS—August 1972

CAPCO JEN 0003433

**A
S
B
E
S
T
O
S**

**HUXLEY
DEVELOPMENT
CORPORATION**

Anthophyllite
Chrysotile
Crocidolite
Amosite

TIME & LIFE BUILDING
ROCKEFELLER CENTER
NEW YORK, N. Y. 10020

TEL: 212 581-0660
CABLE: HUXLEYCORP
TELEX: 420195

OUR 25TH YEAR

ASBESTOS—August 1972

Page 21

CAPCO JEN 0003434

CONSTRUCTION NEWS

JUNE 1972 construction contracting was pushed ahead in value by 6%, to \$8,477,640,000, due to continued strength in housing. Reflecting ~~the~~ current weaknesses in the nonresidential and nonbuilding markets, the seasonally-adjusted Dodge Index (1967=100) declined 7% in June to 154.

Nonresidential building contracts were valued at \$2,446,963,000, a 12% decline from June 1971, with manufacturing plants, schools, hospitals and public buildings all below the rate of last year.

Residential building contracts totaled \$4,375,371,000, a 26% increase over the prior June. Apartment contracting posted a healthy 17% increase and good gains in one- and two-family housing plus a sharp spurt by the small hotel-motel-dormitory component accounted for most of the strength.

Nonbuilding contracts recorded a total value of \$1,655,306,000, representing a 6% decline from the June 1971 results. Contracting gains for sewer and water facilities paced the nonbuilding totals but utilities and contracting for streets and highways trended lower.

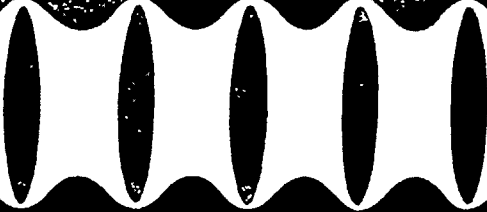
Cumulative construction contract value for the first half of 1972 totaled \$44,705,349,000: Nonresidential, \$13,194,038,000, up 5%; Residential, \$21,729,513,000, up 36%; Nonbuilding, \$9,781,798,000, down 6%. The six-month total was 15% ahead of the same period in 1971. [F. W. Dodge Division, McGraw-Hill Information Systems Co.]

MOTOR VEHICLE FACTORY SALES

MAY 1972 motor vehicle sales from plants in the *United States* totaled 1,078,286 (passenger cars—842,946; trucks and buses—235,340). The cumulative total for the First Five Months of 1972 was 4,953,988 compared with 4,692,368 for the same period in 1971.

Motor vehicle factory sales from plants in *Canada* totaled 148,491 in May 1972. The cumulative total for January-May 1972 was 659,202 against 602,057 for the like 1971 period. [Automobile Manufacturers Association]

From
SCAPA
TEXTILES
LTD.



**100% Synthetic needled felts
for Magnani Sheet Machines**

This new development offers:

- ☐ MUCH INCREASED FELT LIFE
- ☐ MUCH IMPROVED FELT STABILITY
ELIMINATING EDGE TRIMMING
AND WIDTH SPLITTING
- ☐ MUCH IMPROVED PERMEABILITY

 Full details from:
SCAPA TEXTILES LTD.,
Bamford, Rochdale, England. Telex: 63239
The Asbestos Cement Felt Division of Scapa Group Ltd.
WAYCROSS, Ga., U.S.A. JOLIETTE, P.Q., CANADA.

PRODUCTION—IMPORTS—EXPORTS

Australia—Production of non-acoustic asbestos-cement sheets for the six-month period *July-December 1971* totaled 22,266,000 square yards, compared with 21,272,000 square yards during the same six months of the previous year. [Commonwealth Bureau of Census and Statistics, Canberra]

Australia—738 short tons of Chrysotile asbestos were produced during the *January-September 1971* period (681 tons from New South Wales and 57 tons from Western Australia) . . . Imports reached 52,891 tons, valued at \$7,490,000. The breakdown is as follows: Chrysotile, 33,602 tons, valued at \$4,902,000; Amosite, 8,612 tons, valued at \$1,308,000; Other Types, 10,677 tons, valued at \$1,280,000 . . . Exports of All Types and Grades amounted to 13 tons, valued at less than \$2,000 . . . Comparable totals for the first nine months of 1970 are: 618 tons produced; 50,797 tons imported at a value of \$7,116,000; 355 tons exported at a value of \$88,000. [Bureau of Mineral Resources, Geology and Geophysics, Canberra]

Canada—Producers' shipments of asbestos during *May 1972* totaled 138,281 short tons (115,538 tons from plants in Quebec and 22,743 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for *May 1971* was 145,006 tons . . . The cumulative total of producers' shipments for the *First Five Months of 1972* was 623,597 tons (499,948 tons from Quebec plants and 123,649 tons from plants in the other four Provinces). The total for the same period in 1971 was 595,729 tons. [Statistics Canada]

Republic of South Africa—Production of asbestos for the *First Three Months of 1972* totaled 76,137 metric tons: 23,908 tons of Amosite, 12,181 tons of Chrysotile, 36,374 tons of Cape Blue, and 1,674 tons of Transvaal Blue. Total production for the first quarter of 1971 was 75,151 tons . . . Local Sales reached 5,113 tons, valued at R520,425, compared with 9,336 tons, valued at R968,439 during the first quarter of the previous year. The breakdown for 1972 is: Amosite, 579 tons, R66,298; Chrysotile, 2,989 tons, R239,960; Cape Blue, 1,468 tons, R209,892; Transvaal Blue, 77 tons, R4,275 . . . Exports of asbestos for the first three months of 1972 totaled 46,937 tons, valued at R6,682,188, broken down as follows: Amosite, 15,657 tons, R2,157,366; Chrysotile, 6,820 tons, R609,729; Cape Blue, 23,180 tons, R3,682,793; Transvaal Blue, 1,280 tons, R232,300. Total exports for the same period of 1971 were 52,149 tons, valued at R6,704,855. [Department of Mines, Johannesburg]

ASBESTOS

Kilborn-engineered asbestos projects in Canada, U.S.A., South America and Europe produce a total fibre output of 365,000 tons per year.

Kilborn services include marketing surveys, process and operating assistance, engineering and construction management for new plants and expansion programs.

KILBORN ENGINEERING LTD.
36 Park Lawn Road, Toronto, Canada

KILBORN ENGINEERING (B.C.) LTD.
1199 West Pender Street, Vancouver, Canada

KILBORN ENGINEERING PACIFIC PTY. LTD.
201-18 Berry Street, Sydney 2060, Australia

KILBORN

IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census

<i>Unmanufactured Asbestos:</i>		MARCH 1972	
Amosite, South Africa	s. tons	482	\$ 97,355
Crocidolite (Blue) South Africa	s. tons	198	42,712
Chrysotile, Crude, South Africa	s. tons	240	52,688
Chrysotile, Spinning Fibers, Canada.....	s. tons	1,336	617,068
Chrysotile, Other, Canada	s. tons	60,449	6,348,923
Other Crudes & Fibers, Canada.....	s. tons	252	14,182
Finland	s. tons	214	15,169
Italy	s. tons	1	1,111
South Africa	s. tons	350	58,853
Switzerland	s. tons	4	1,538
		63,526	\$ 7,249,599

<i>Manufactured Asbestos Goods:</i>			
Asbestos yarn, slivers, etc.	Lb	463,218	\$ 398,844
A-C pipes, tubes and fittings	Lb	5,238,386	250,537
A-C articles, other	Lb	1,586,428	306,514
Asbestos articles, other		..	264,861
			\$ 1,220,756

<i>Unmanufactured Asbestos:</i>		JANUARY-MARCH 1972	
Amosite, South Africa	s. tons	1,900	\$ 319,768
Crocidolite (Blue) Bolivia	s. tons	29	2,966
South Africa	s. tons	834	180,019
Chrysotile, Crude, South Africa	s. tons	330	73,499
Chrysotile, Spinning Fibers, Canada.....	s. tons	2,966	1,399,549
Chrysotile, Other, Canada	s. tons	171,914	20,387,894
Other Crudes & Fibers, Canada	s. tons	970	98,438
Finland	s. tons	739	48,340
Greece	s. tons	6	1,361
Italy	s. tons	1	1,111
Mozambique	s. tons	33	4,773
South Africa	s. tons	390	70,032
Switzerland	s. tons	4	1,538
		180,116	\$22,589,288

<i>Manufactured Asbestos Goods:</i>			
Asbestos yarn, slivers, etc.	Lb	1,236,189	\$ 1,108,515
A-C pipes, tubes and fittings	Lb	10,695,299	520,460
A-C articles, other	Lb	5,153,612	845,090
Asbestos articles, other		..	621,199
			\$ 3,095,264

20
MONDAY



*Pressure
Magnani Pipe
Machines*



apply to
F. L. Smidth & Co. A/S
77 Vigerslev Allé
2500 Copenhagen Valby, Denmark.

ASBESTOS—August 1972

Page 27

CAPCO JEN 0003440

EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census

<i>Unmanufactured Asbestos:</i>		MARCH 1972	
Fibers not further processed than beaten, washed or graded to lengths. tons	3,008	\$	516,748
Waste and refuses. tons	2,857		355,345
	5,865	\$	872,093
<i>Manufactured Asbestos Goods:</i>			
A-C shingles and clapboardLb	1,794,362	\$	181,321
Other a-c or fiber-cement articlesLb	447,784		76,527
GasketsLb	32,256		92,162
PackingLb	410,772		521,608
Heat or sound insulationLb	..		199,411
Textiles and yarnsLb	1,450,888		323,441
Protective clothingLb	..		11,041
Mfrs. other than friction materialsLb	..		400,529
Cl. facings and linings for auto. useNo	287,981		205,011
Other clutch facings and liningsNo	41,033		34,510
Brake linings for automotive useLb	610,241		453,089
Other brake liningsLb	270,324		243,087
			\$2,741,737

<i>Unmanufactured Asbestos:</i>		JANUARY-MARCH 1972	
Fibers not further processed than beaten, washed or graded to lengths. tons	7,155	\$1,027,105	
Waste and refuses. tons	4,418	560,796	
	11,573	\$1,587,901	
<i>Manufactured Asbestos Goods:</i>			
A-C shingles and clapboardLb	6,742,909	\$	680,771
Other a-c or fiber-cement articlesLb	1,699,527		238,525
GasketsLb	175,913		308,563
PackingLb	1,258,535		1,755,397
Heat or sound insulationLb	..		559,350
Textiles and yarnsLb	5,447,884		1,107,251
Protective clothingLb	..		45,794
Mfrs. other than friction materialsLb	..		1,003,674
Cl. facings and linings for auto. useNo	793,444		617,075
Other clutch facings and liningsNo	256,226		130,474
Brake linings for automotive useNo	1,704,676		1,245,291
Other brake liningsLb	658,828		545,295
			\$8,237,460

ASBESTOS CORPORATION LIMITED



North American Representatives

■ CANADA

Albion Asbestos Packings Ltd.
2195 Ekers Ave.
Montreal 256, Que.

Canadian Asbestos Ontario Ltd.
288 King Street East
Toronto 2, Ont.

■ MEXICO

ACOSA
Apartado Postal 8600
Mexico 1, D.F.

■ UNITED STATES

BALTIMORE, MD. 21202
Wallace & Gale Co.
115-119 So. Gay St.

BUFFALO, N.Y. 14210
Meyers Chemicals Inc.
290 Larkin St.

CHICAGO, ILL. 60645
Donald R. Fitzgerald Co.
5875 N. Lincoln Ave.

CINCINNATI, OHIO 45203
C. L. Zimmerman Co.
N 203 Cincinnati Union Terminal

CLEVELAND, OHIO 44102
Chem-Materials Co., Inc.
6400 Herman Avenue

DETROIT, MICH. 48219
Gerald J. Fahey
16722 Plainview Road

FORT WORTH, TEXAS 76106

Lehman-Phillips, Inc.
2550 Glendale Ave.

HAYWARD, CAL. 94544

Central Solvents & Chemicals Co.
31702 Hayman St.

KENT, WASH. 98031

Central Solvents & Chemicals Co.
7601 South 190th St.

NEW ORLEANS, LA. 70126

D. F. Condon Co.
Box 26012
Chef Menteur Station

SOUTH PLAIN FIELD, NEW JERSEY 07080

Whittaker, Clark & Daniels, Inc.,
1000 Coolidge St.

PHILADELPHIA, PA. 19140

Charles A. Wagner Co. Inc.
4455 N. 6th St.

PORTLAND, ORE. 97302

Central Solvents & Chemicals Co.
10821 North Lombard St.

ST. PAUL, MINN. 55114

MacArthur Co.
936 Raymond Ave.

SALT LAKE CITY, UTAH 84110

Central Solvents & Chemicals Co.
407 West 17th South St.

SANTA FE SPRINGS, CAL. 90670

Central Solvents & Chemicals Co.
13900 Carmentia Road

SPOKANE, WASH. 99206

Central Solvents & Chemicals Co.
6308 East Sharp Avenue

4-72

EXPORTS FROM CANADA

Figures from Statistics Canada

MARCH 1972

Unmanufactured Asbestos:	Crude	Short Tons		
		Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	633	12,262	9,705
Eastern Europe	..	..	1,685	18
Middle East	..	..	1,258	196
Africa	..	..	90	40
Asia	..	116	3,903	5,729
Oceania	..	..	1,814	389
So. & Cen. America & Antilles ..	..	42	5,729	2,712
United States	..	1,429	19,013	47,016
		2,220	45,754	65,805

The total amount of unmanufactured asbestos exported in March 1972 was 113,779 short tons, valued at \$15,041,000.

Manufactured Asbestos Goods:

Brake linings and facings	\$ 41,000
Asbestos-cement building materials	157,000
Other basic products	189,000
	\$ 387,000

JANUARY-MARCH 1972

Unmanufactured Asbestos:	Crude	Short Tons		
		Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	3	2,723	44,931	26,918
Eastern Europe	..	50	9,734	196
Middle East	..	..	4,968	1,210
Africa	..	..	2,226	1,165
Asia	2	770	21,567	31,455
Oceania	..	07	9,784	1,809
So. & Cen. America & Antilles ..	..	130	19,748	8,490
United States	1	3,515	52,887	117,416
	6	7,195	165,845	188,659

The total amount of unmanufactured asbestos exported in January-March 1972 was 361,705 short tons, valued at \$52,569,000.

Manufactured Asbestos Goods:

Brake linings and facings	\$ 158,000
Asbestos-cement building materials	530,000
Other basic products	590,000
	\$ 1,278,000

**WHY
DO
HARDMAN'S
SUPPLY SO MANY
LARGE PIPE MACHINE FELTS?**

Because their unique method of
heat setting the fibres practically eliminates
any tendency for the felt to fold or
crease on the machine.

All Enquiries Welcomed.

THOMAS HARDMAN & SONS LTD

Fernhill Mills, Bury, Lancs. BL9 5BD, England.
Telex 667477 Cables Felts Bury. Tel. 061-764-4825.

CAPCO JEN 0003444

MINERAL FACTS & PROBLEMS, 1970 EDITION

Part 16: Economic Factors/Strategic Considerations

The varieties and grades of asbestos that are of greatest strategic importance are being stockpiled. The national stockpile items are spinning grade Chrysotile and Amosite. Bolivian Blue Crocidolite is no longer considered strategic. The United States is dependent upon foreign sources for 90-93% of its requirements for all grades of asbestos.

Part 17: Environmental Considerations.

Many investigators from various countries have established that inhalation of dust of different chemical and physical types of asbestos results in the development of asbestosis of the lung which, depending upon the type of exposure, may be designated as an occupational, a neighborhood or a household pneumoconiosis. The hazards are recognized and steps are being taken by industry to filter the air and properly ventilate mines and mills. A leading asbestos producer instituted programs to prevent possible health and safety hazards and to improve the quality of air and water used in manufacturing operations. Environmental control activities included the development of a rotary filter system that permits the continual re-use of industrial process water. The new system which uses diatomite filter aid products reduces water demand and eliminates high-solid-effluent problems.

An epidemiological survey is being carried on throughout the Quebec asbestos industry by the Quebec Asbestos Mining Association as part of a planned international effort. Fact-finding medical research on the effect of asbestos on human health was centered in the Thetford Mines and Asbestos districts. Similar surveys are being conducted in the U.S., Finland, the USSR, Republic of South Africa, Italy and in other countries. Because of the universal use of asbestos and asbestos products, national and international authorities are pressing for careful investigations so that dangers can be identified and controlled. Much has been done to develop effective dust control methods and to create better working conditions.

No land-use conflict problems seem likely to inhibit the production of asbestos. Virtually all of the deposits are in rugged country far removed from major populated areas. The mining operations are on privately-owned or leased lands. Waste rock is hauled to nearby dumps and as the pile builds up, a bulldozer spreads it out. Water sprays allay the dust as the tailings are discharged. The milling of asbestos is generally a dry operation and hooded screens operate under a slight negative pressure for dust control. The King City, California, operation of Union Carbide Corporation uses a wet milling ore beneficiation method.

NEXT ISSUE—OUTLOOK/DEMAND & CONSTRUCTION

Page 32

ASBESTOS—August 1972

CAPCO JEN 0003445



Exporters of

RAW ASBESTOS

ALL GRADES—ALL TYPES

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

P. O. BOX 11000

SWISSCO HOUSE — 7 RISSIK STREET

JOHANNESBURG · SOUTH AFRICA

OFFICES ALSO IN: TOYKO (JAPAN); GENEVA (SWITZERLAND)



Phenolic Resins

LIQUID · LUMP · POWDER

Cashew Resins

LIQUID · PARTICLE · POLYMERS

FOR FRICTION MATERIALS

POLYREZ COMPANY, INC.

SOUTH COLUMBIA ST. AND RAILROAD
WOODBURY, NEW JERSEY 08096

ASBESTOS HILL PRODUCING

The new asbestos mine of Asbestos Corporation Ltd., located on Hudson Strait in the far northern Ungava area of Quebec, is now in production. Following a construction period of two years and an expense of approximately \$65 million, the Asbestos Hill project started into the tune-up stage in May and tonnage of ungraded asbestos fiber is now being trucked some 40 miles north to the storage facilities at the dock site at Deception Bay.

The 5000-ton per day mill, situated near the open pit mining operation, is currently and steadily being worked up to rated capacity. Accumulated production is expected to start moving to Asbestos Corporation's finishing plant at Nordenham, West Germany, when the normal shipping season for ocean freighters opens this month. The finishing plant and related facilities at Nordenham are designed to annually treat 300,000 tons of ungraded material to produce 100,000 tons of finished fiber, mostly of the No. 4 and No. 5 grades, [Northern Miner]

ABITIBI/BRINCO AGREEMENT APPROVED

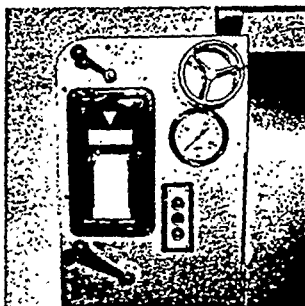
Shareholder approval has been obtained, thus closing the agreement [see May 1972 ASBESTOS] between Abitibi Asbestos Mining Co. and Brinco Ltd. regarding Abitibi's asbestos property in Maizerets Township, some 50 miles north of Amos, in Northwestern Quebec. A feasibility study made by Kilborn Engineering on the "A" property showed that ore reserves amenable to open pit mining are sufficient to support a 13,000-ton per day processing plant for 25 years. The fiber is a fast-draining, strong, clean, cross-fiber Chrysotile, in Groups 4, 5 and 6. Other news from Abitibi . . . Dydar Holdings has been engaged as Manager of certain exploration and development programs . . . In addition to the Maizerets deposit, Abitibi holds adjacent mining claim groups. Testing of favorable geological features on these claims will soon get underway . . . An asbestos discovery was made on a property located in McArthur Township, 26 miles south of Timmins, Ontario. Abitibi holds this property under option.

CANADIAN MINES BRANCH PROGRAM

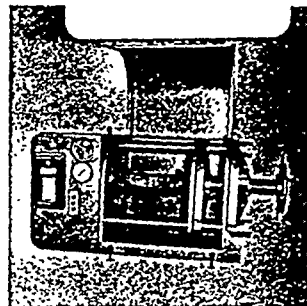
Underway in April was the first phase of a five-year (Canadian) \$3.3 million program to devise standardized engineering procedures for designing and supporting the walls of open pit mines or for reducing the size of open pits. According to a spokesman for the Department of Energy, Mines and Resources, Ottawa, the purpose of the program is to allow maximum extraction of ore at minimum physical hazard and cost.

Contractors for the project are Asbestos Corporation; Smith and Bray Engineering in association with Sherritt Gordon Mines; Wright Engineers; Golder, Brawner and Associates; the University of Alberta; Queens' University; and Ecole Polytechnique de Montreal. In addition, sub-contracts have been awarded to engineering firms and universities across Canada. [Mineral Trade News]

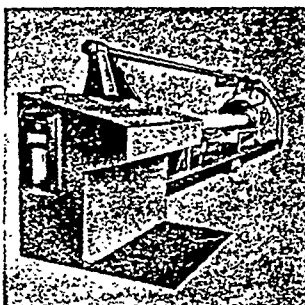
(W) Choose performance and efficiency



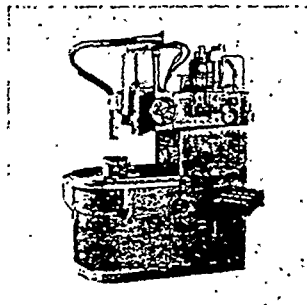
Pressure recorder of our test presses



Bursting test press for pipes



Triple pipe test press



Hydraulic lathe for pipe couplings

What are your specific problems?
 Modernisation of sheet-machine? —
 Production of special sheets of 9 m
 length? — Up-to-date pneumatic cor-
 rugator? — Plant for pressure pipes? —
 Automatic socket pipe installation? —
 Modern laboratory equipment? — Effi-
 cient plant for prefabricated walls,
 sandwich panels (made of asbestos-
 cement sheets and foamed plastics)?

Presses or cutting-presses for high
 quality sheets? — Automatic con-
 sistency control of water, asbestos and
 cement, during production? — Remem-
 ber, WEHRHAHN represents more than
 a man's age of experience with refe-
 rences all over the world! Why not
 contact them? Ask for up-to-date quo-
 tations!
 Choose WEHRHAHN!



GEBR. WEHRHAHN

MASCHINENFABRIKEN DELMENHORST · WILDESHAUSEN UND DINKLAGE
 287 Delmenhorst 1, Germany, Linoleumstraße, P.O.Box 209, ☎ (04221) 4591, ✉ 0249284

CAPCO JEN 0003448

BIRTHDAY GREETINGS TO . . .

Robert W. Winson, Mine Project Manager, Reeves Mine, Canadian Johns-Manville Co. Ltd., Timmins, Ontario, September 13.
 W. John Scottford, Technical Director, Wunderlich Ltd., Sydney, N.S.W., Australia, September 15.
 Chester E. Sheppards, General Manager, Residential Products Division, Johns-Manville Corporation, September 15.
 William L. VanDerbeek, Vice President, Mining & Canadian Products Divisions, Johns-Manville Corporation, Denver, Colorado, September 15.
 Jack L. Neal, President, Metate Asbestos Corporation, Globe, Arizona, September 16.
 Charles D. Harless, Vice President-Western Sales, Building Products Division, National Gypsum Co., Long Beach, California, September 17.
 Albert Strodbeck, Secretary, The Clark Asbestos Co., Cleveland, Ohio, September 17.
 Walter F. Marcuse, President, Canadian Asbestos Co., St. Laurent, Montreal, Quebec, September 18.
 D. M. Pearson, Vice Chairman, BBA Group Ltd., Cleckheaton, Yorkshire, England, September 18.
 Arthur J. Steneri, Foreign Project Manager, Johns-Manville International Corporation, September 18.
 J. D. Christian, Chairman of the Board & President, Cassiar Asbestos Corporation Ltd., Toronto, Ontario, September 19.
 W. W. Oughtred, President & Chief Executive Officer, Asbestos Corporation Ltd., Thetford Mines, Quebec, September 19.
 William R. Whitener, Sales Manager, Atlas Asbestos Co., Alhambra, California, September 20.
 Philip M. Malouf, President, United Asbestos Corporation Ltd., Montreal, Quebec, September 21.
 John B. Proctor, Vice President-Engineering, National Gypsum Co., Buffalo, New York, September 21.
 Victor J. Laskoski, Marketing Manager-Asbestos Fibers, Industrial Products Division, GAF Corporation, New York City, September 22.
 Jay P. Nicely, Vice President-Sales, Building Products Division, National Gypsum Company, Buffalo, New York, September 22.
 Richard F. Dooley, Vice President, United Asbestos Corporation, Ltd., Montreal, Quebec, September 24.
 Jack B. Stiles, Works Manager, Wunderlich Ltd., Rosehill, N.S.W., Australia, September 24.
 Win Brown, Vice President, MacArthur Co., St. Paul, Minnesota, September 25.
 H. Leonard Falle, Vice President-Marketing and a Director, Atlas Asbestos Co., Montreal, Quebec, September 26.
 D. W. Jaquays, President, Jaquays Mining Corporation, Phoenix, Arizona, September 27.
 Fred C. Phillips, Director of Marketing, Fiber and Textile Division, Uniroyal, Inc., Winnsboro, South Carolina, September 28.



Gold Bond uses the best quality control devices known to man: people.

Sure we automated our milling equipment. Five floors of it.
But we want to be certain the particular grade of asbestos
you need meets your requirements for uniformity.

So people monitor the automated mills on closed-circuit TV.
And people test each batch.

Our technicians make wet screen analyses to evaluate
length and distribution of fibre...viscosity tests on absorptive
characteristics...measure grit content...whatever it takes to
be sure the asbestos meets your exact specifications. Batch
after batch.

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.



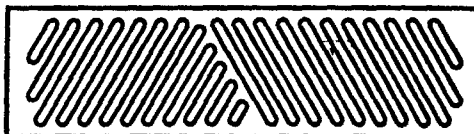
Sir William C. Fenton, Honorary President, BBA Group Ltd., Cleckheaton, Yorkshire, England, September 29.
W. N. Plumb, Chief Geologist, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, September 29.
William K. Murray, Director of Advertising & Public Relations, American Smelting & Refining Co., New York City, September 30.
Harry J. Demare, Plant Manager, Asbestos-Cement Plant, National Gypsum Co., New Orleans, Louisiana, October 1.
Wolf E. Lehmann, General Manager for Europe, Africa & Middle East, International Division, Johns-Manville Corporation, October 1.
Richard P. Stout, Director of Research & Development, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, October 2.
Donald A. Bain, Sales Manager, Asbestos Erectors of Canada Ltd., Montreal, Quebec, October 3.
Richard P. Clark, Product Sales Manager, Uniroyal, Inc., Winnsboro, South Carolina, October 4.
W. D. Gaches, President, Johns-Manville Irrigation Corporation, Manasquan, New Jersey, October 4.
John G. Cole, Mine Manager, Advocate Mines Ltd., Baie Verte, Newfoundland, October 5.
Maurice Hartke, Plant Manager, Philip Carey Co., Linden, New Jersey, October 5.
P. C. Barr, Managing Director, Hindustan Ferrodo Ltd., Ghatkopar, Bombay, India, October 6.
F. A. Cunningham, Vice President-Operations, Asbestos Corporation Ltd., Thetford Mines, Quebec, October 8.
Jack Scheckowitz, Vice President-Advertising & Sales Promotion, GAF Corporation, New York City, October 8.
Edward A. Schuman, Product Manager, Sheets and Cut Gaskets, Johns-Manville Corporation, October 9.
A. H. Adams, Vice President-Engineering, C-E Bauer, Subsidiary of Combustion Engineering, Inc., Springfield, Ohio, October 10.
J. G. Berry, General Manager and a Director, Cassiar Asbestos Corporation Ltd., Toronto, Ontario, October 11.
A. L. Penhale, Vice Chairman, Asbestos Corporation Ltd., Thetford Mines, Quebec, October 11.
Gordon G. Hazell, Manager, Technical Sales and Field Engineering, Building Products Division, GAF Corporation, New York City, October 13.
Kenneth M. King, Jr., Vice President-Special Services, Bird & Son, Inc., East Walpole, Massachusetts, October 14.

PAUL J. SMITH HONORED

Committee D-13 on Textile Materials of the American Society for Testing and Materials, at its recent meeting held in New York City, honored Paul J. Smith for his many years as ASTM technical liaison representative to the Committee. Mr. Smith was presented with a plaque, symbolizing his having been selected as an Honorary Member of D-13.

Robalit 61

Suction Box Covers and Felt Conditioner Tops for Asbestos-Cement Pipe and Sheet Machines. Our plastic material alloyed with Molykote is proven in countless installations throughout Europe and Overseas.



- Covers made to your specification. Modern herringbone pattern with stretch-out effect at no extra cost.
- Minimum coefficient of friction, considerable reduction of drag load.
- Remarkable increase in felt speed and felt life.
- Easy mounting, easy cleaning, easy resurfacing, no corrosion.
- Minimum wear — no sharp edges developing.

Leripa

LEDER- UND RIEMEN-PATENTVERWERTUNGSGES. M. B. H.
A-1151 WIEN XV, MARIAHILFER STRASSE 135 - AUSTRIA

U.S. REPRESENTATIVES:

Minerals & Asbestos Corp.

P. O. BOX 1206, PORT CHESTER, N.Y. 10573, (914) 937-3828

Agents in most countries of the world

NOTES FROM 1971 ANNUAL REPORTS

ADVOCATE MINES LTD.

Net income for Advocate Mines Ltd. was \$1,824,000 or 17¢ per common share, after providing for preference dividends of \$806,000 earned in 1971. This compares with net income in 1970 of \$1.4 million or 11¢ per common share. Cash from operations was \$3,238,000, of which \$262,000 was applied for fixed asset additions. The "Bottle Neck Removal Program" was completed in the crushing and drying building and continued emphasis was placed on environmental control in the milling operation. During the year, a computer mining program was successfully developed for the mine. The benefits derived from the program are a reliable mining sequence for both short-term and long-term planning and for the elimination of undue fluctuations in total annual tons moved.

The Advocate plant was one of two of the twelve reporting mines and quarries in Newfoundland to record the achievement of "no lost time accidents" in 1971.

During the year, 2,573,200 tons of ore, 6,589,000 tons of waste and overburden, and 242,000 tons of road rock were mined. This provided a total of 9,404,200 tons, with a waste-to-ore ratio of 2.56:1, against 3.85:1 in 1970. The crushing and drying plant received 2,429,500 tons of ore, with a recovery of 3.12%. The mill operated 335 days and produced 70,614 tons of A-25 fiber and 5,107 tons of A-35 fiber, at a total value of \$13,946,000. Shipments exceeded those of 1970 by 10% and included 65,221 tons of A-25 fiber and 4,007 tons of A-35 fiber.

At December 31, 1971, reserves amounted to 57,332,000 tons. Some development drilling was done during the year and additional drilling is planned for 1972.

Canadian Johns-Manville Co. Ltd. is Manager of the Advocate Mines operations located at Baie Verte, Newfoundland.

CERTAIN-TEED PRODUCTS CORPORATION

The most profitable year in the history of Certain-Teed Products Corporation was achieved in 1971, reflecting some fundamental changes that have taken place in the company's direction, in its product mix and in its capabilities. Over the past ten years, Certain-teed has made significant strides toward establishing product lines having a strong technological base with the resulting opportunities for higher profit margins and more sustained and continuous earning power. The program started in 1962 when Certain-teed entered into agreements with Turner & Newall Ltd. to acquire its U.S. interests in asbestos-cement pipe. Certain-teed is now the second largest U.S. producer in this field. The firm is also the second largest U.S. producer of glass fiber insulation products and the largest producer of PVC piping products.

A major effort was launched in 1971 to strengthen the company's reputation as a leading producer of asbestos-cement and PVC pipe

ASBESTOS

ALL KINDS
FOR ALL USES

•
TECHNICAL SERVICE
AVAILABLE

•
CENTRAL ASBESTOS
Co., LTD.

CENTRAL HOUSE • THOMAS ROAD • LONDON E14 7BQ
Phone 01-987-5711 Telex 24211 Cables CENBESTOS LONDON

CENTRAL ASBESTOS (S.A.) PTY LTD.
P.O. BOX 61826, MARSHALLTOWN, TRANSVAAL

MEN ON THE MOVE

BELL ASBESTOS MINES LTD.

F. Parker Smith was appointed Vice-Chairman of the Board, having retired as President effective July 1st. Marcel Dorais, formerly Executive Vice President, was appointed President and General Manager.

CERTAIN-TEED PRODUCTS CORPORATION

Theodore F. Merkel, Comptroller, announced the appointment of Leonard J. LeBlanc as Director of Financial Analysis and Auditing, a position previously held by Barry C. Burkholder who was recently promoted to Assistant Vice President and Special Assistant to E. A. Diefenbach, Vice President of Finance. . . . Douglas J. Murray has joined Certain-teed as Assistant to Senior Vice President Byron C. Radaker. Mr. Murray had previously been President of Nayadic Sciences, Inc., a minority-owned subsidiary. . . . David A. Kerley was named Sales Manager of K.O.B. Carpets, a wholly-owned subsidiary, it was announced by K.O.B. President, Robert O'Brien.

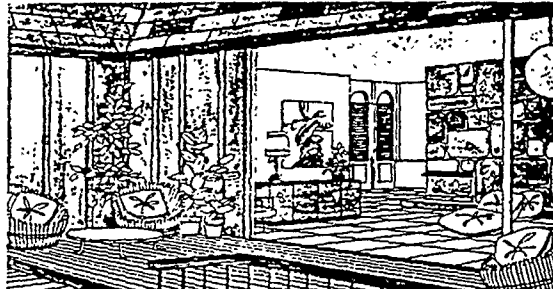
RAYBESTOS-MANHATTAN, INC.

Robert M. Gordon, President of R/M's subsidiary, The Milford Rivet & Machine Company, was elected to the Board of Directors, it was announced by William S. Simpson, R/M Chairman of the Board and President. . . . Philip G. Dolan, Director of Marketing Services, announced the appointment of Lee R. Hossler to the new post of Advertising Collateral Manager. Mr. Hossler joined the company in 1957.

SFROUT, WALDRON & CO., INC.

L. L. Murray, Vice President of Sales and Engineering, announced the appointment of six new sales representatives in conjunction with a major realignment of several of the company's U.S. sales territories. The new sales representatives include Robert E. Manchester, Karl E. Mannschreck, James M. Rogers, Lionell Stephens, Richard L. Stewart and Denny M. West. . . . The following three veteran employees were transferred to new assignments within the firm: Erskin Good, Manager of the warehousing facilities at St. Joseph, Missouri; Charles W. Johnson, Administrative Assistant at the St. Joseph Branch of the Contracts and Systems Division; and Richard N. James, Service Representative for the Midwest area.

FLINTKOTE ASBESTOS



Take it from our very best customer

That's us, The Flintkote Company. We recommend it to you too. After all, we use Flintkote asbestos in many Flintkote products. Like floor tile; roofing shingles; felts and building papers; industrial coatings; and pipe.

Flintkote asbestos makes lots of things better. Perhaps *your* products. Asbestos is inert, fireproof, non-oxidizing, moisture-proof, bug-proof. And inexpensive. Flintkote can meet and control production to exacting specifications.

Flintkote offers you the finest in a wide variety of Chrysotile Asbestos Fibers and the know-how to help you choose the best for your purpose. Call on Flintkote now for fast service.



THE FLINTKOTE COMPANY
400 WESTCHESTER AVENUE
WHITE PLAINS, NEW YORK 10604

ASBESTOS STOCK QUOTATIONS

CLOSE—JULY 18, 1972

Abitibi Asbestos	*\$2.55	Gulf & Western	34 1/4
Advocate Mines	*\$1.65	G&W (pfd 3.50)	143 3/4
Allied Mining	*\$3.20	G&W (pfd 3.87)	68 1/2
Asarco	19	G&W (pfd 5.75)	69 1/4
Armstrong Cork	34 1/4	Illinois Central	31
Armst Cork (pfd 3.75) ..	55 1/2	Ill. Central (pfd 3.50) ..	55 1/2
Asbestos Corporation ..	*\$21.25	Johns-Manville	31 1/4
Bendix	46 1/4	Keumecott Copper	21 1/4
Bendix (pfd 3)	71 1/4	Maremont	31
Carlisle	21 1/4	McAdam Mining	*\$50.00
Cassiar Asbestos	*\$16.00	National Gypsum	17 1/2
Cerro Corporation	12 3/4	Natl Gypsum (pfd 4.50) ..	70
Certain-teed Products ..	49 3/4	Pathfinder	*\$1.21
C-teed (when issued) ..	25	Porter (pfd 5.50)	82 1/2
Conwest	*\$6.75	Raybestos-Manhattan ..	27 1/4
Flinkote	25 1/4	Ro Algom	*\$20.25
F-kote (pfd-A 4.50) ..	77 1/4	Royal Industries	12 1/4
F-kote (pfd-B 2.25) ..	37	Unarco	14 1/4
Freeport Minerals	18 1/4	Union Carbide	45 1/4
GAF Corporation	22 3/4	Uniroyal	16
GAF (pfd 1.20)	28 1/4	Uniroyal (pfd 8)	103
Garlock	19 1/4	United Asbestos	4
Grace	23 3/4		

*Canadian Currency

(Sources: The Wall Street Journal & The Northern Miner)

ASTM STANDARDS

C 421 71—Test for Mechanical Stability of Preformed Thermal Insulation by Tumbling. [Revision of Standard; Approved December 22, 1971; Reference Part 14, 1972; \$1.25]

C 447 71—Determining Maximum Use Temperature of Preformed High-Temperature Insulation. [Revision of Standard; Approved December 22, 1971; Reference Part 14, 1972; \$1.25]

C 500 72—Testing Asbestos-Cement Pipe. [Revision of Standard; published February 1972; Reference Part 12, 1972; \$1.25]

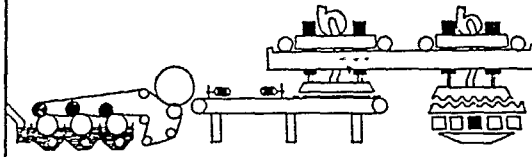
D 8 71—Definitions of Terms Relating to Materials for Roads and Pavements. [Revision of Standard; Approved November 22, 1971; Reference Parts 10 & 11, 1972; \$1.25]

F 146 72—Test for Fluid Resistance of Gasket Materials. [New Standard; Published March 1972; Reference Part 28, 1972; \$1.25]

F.LLI BAZZI G. & L.

15033 CASALE MONFERRATO - ITALIA
CORSO INDIPENDENZA, 33 TEL. 72444

We furnish machinery for the manufacture of plain and corrugated asbestos-cement sheets and projects of plants.



PACIFIC ASBESTOS CORPORATION



MOTHER LODE® ASBESTOS

CHRYSTILE FIBRE
GROUPS 4 through 7

P.O. BOX 127, COPPEROPOLIS, CALIFORNIA 95228

Telephone: 209-785-2201

Telex: 359-458

Cable Address: Chrysotile

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.

British 1,263,812—A composition for forming polymeric sheets that may be thermofomed or cold-pressed consists of bleached sulfate wood pulp, acrylonitrile butadiene-styrene powder and latex, and high-purity Chrysotile asbestos as a precipitant, and optionally a foaming agent; P. L. Gibson & B. Radvan, assigned to Wiggins Tape Research & Development, February 16, 1972; 8 pages.

British 1,266,054—Slabs for insulating steel ingots are formed from a mixture comprising preferably about 42% by weight of silica flour, 21% of silica sand, 20% of sodium carbonate, 10% of dry powdered sodium silicate, 6% of waste paper and 1% of Amosite asbestos fiber; A. McDonnell; assigned to Fosco Trading AG, March 8, 1972; 3 pages.

U.S. 3,644,138—The filtration property of asbestos is improved by spraying the fibers with a solution of aluminum sulfate and then passing the coated fibers under drying lamps to evaporate the water and leave aluminum sulfate-coated dry fibers; C. E. Stiefken; assigned to American Smelting and Refining Co., February 22, 1972; 5 pages.

U.S. 3,647,722—In the production of friction elements, at least 70% by weight of asbestos is mixed with up to 30% of friction modifiers, the solids slurried in a solvent and a phenolic resin-type varnish, the solvent evaporated and the resin heat-cured; C. E. Albertson & H. S. Okubo; March 7, 1972; 5 pages.

U.S. 3,647,744—A brake lining composition having good resistance to wear is obtained by adding to the usual batch of asbestos and a resin preferably about 7% by weight of sodium fluoride instead of the usual cryolite; W. L. Rich & M. H. Weintraub; assigned to Ford Motor Co., March 17, 1972; 3 pages.

U.S. 3,650,886—In the preparation of a colloidal suspension for use as a thickener or in water-base paints, an aqueous slurry of Chrysotile asbestos and hydrogen hectorite is subjected to high-speed shearing until the bulk of the fiber is of colloidal size; A. Torok; assigned to Yara Engineering Corporation, March 21, 1972; 5 pages.

U.S. 3,652,382—In the production of an asbestos product of high surface area, Chrysotile is defiberized in the presence of a dilute mineral acid, the freed fibrils further treated with an acid to form a layer of silica on the fibrils, the silica dissolved with an alkali and the fibrils washed to remove excess alkali; A. B. Gancy; assigned to FMC Corporation, March 28, 1972; 3 pages.

=====

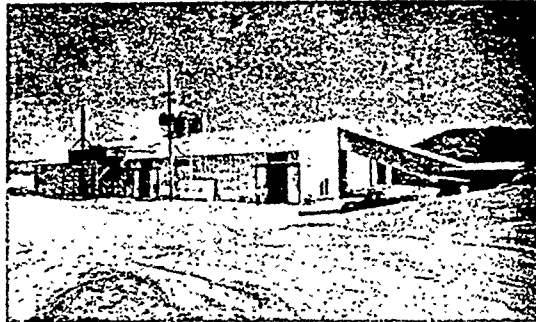
ARIZONA ASBESTOS

Mined and Milled by

JAQUAYS ASBESTOS CORPORATION

1219 S. 19th Avenue

PHOENIX, ARIZONA



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

MINES AND MILL IN GILA COUNTY

=====

ASBESTOS—August 1972

Page 49

CAPCO JEN 0003460

CALENDAR OF EVENTS

Thermal Insulation Association of Canada—10th Annual Meeting (held in conjunction with the World Conference of Thermal and Acoustical Insulation); Brussels, Belgium, *September 10-13*.

Asbestos Textile Institute—General Meeting; Seaview Country Club, Absecon, New Jersey; *September 18-20*.

Noise in Manufacturing Plants Seminar—presented by L. N. Miller of Bolt Beranek and Newman Inc.; *September 18-20* in Detroit, Michigan; *October 2-4* in Kansas City, Missouri; and *October 16-18* in Atlanta, Georgia.

Managing the Industrial Engineering Function Workshop—University of Wisconsin-Extension, Milwaukee, Wisconsin, *September 19-20*.

IEEE-TAP Environmental Conference—National Bureau of Standards, Gaithersburg, Maryland; *September 20-22*.

The Institution of Mining and Metallurgy—General Meeting; Lecture Theatre of The Chemical Society, London, England; *September 21*.

National Environmental Information Symposium—sponsored by the Environmental Protection Agency; National Environmental Research Center, Cincinnati, Ohio; *September 24-27*.

ASTM Committee D-30 on High Modulus Fibers and Their Composites—Holiday Inn, Palm Beach, Florida; *September 25-28*.

International Building and Construction Exhibition—sponsored by the Irish Construction Industry Federation; Dublin, Ireland; *October 3-7*.

Inter-Noise 72—the first International Noise Control Engineering Conference and Equipment Exposition; Shoreham Hotel, Washington, D.C.; *October 4-6*.

Eastern Atlantic States Insulation Contractors Association—Fall Meeting; Tamiment Resort and Country Club, Tamiment (Pocono Mts.), Pennsylvania; *October 5-6*.

Midwest Insulation Contractors Association—Fall Meeting; Hilton Hotel, Omaha, Nebraska; *October 5-6*.

Instrument Society of America—27th Annual Conference; Coliseum, New York City; *October 9-12*.

ASTM Committee F-3 on Gaskets—Sheraton-Boston Hotel, Boston, Massachusetts; *October 12-13*.

ASTM Committee C-16 on Thermal and Cryogenic Insulating Materials—Holiday Inn, Ottawa, Canada; *October 15-18*.

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

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.

Strangely enough, they don't seem to have had a single all-embracing word for 'one of the leading producers of asbestos textiles in the world who know their subject inside out and who are ready at the drop of a hint to advise on any aspect of asbestos in any of its many applications'.

But we have. Say 'Scandura' and you've said it all.



Scandura

Scandura Limited, P.O. Box 19,
Cleckheaton, BD19 3UL, Yorkshire, England.
Telephone Cleckheaton 5711; Telex 51106.

A member of the BBA Group

Remember When?

(August 1922 ASBESTOS)

New Advertisers:

~~West Coast Asbestos Co.~~
The Carr Brea Asbestos Syndicate

The lead article in this issue described, in great detail, the many uses of various forms of asbestos in the electrical insulation of motors and generators.

Figures on the use of automobiles in Japan indicated imports of motorcars had increased from 30 in 1915 to 1074 in 1921.

It was announced that Oliver Bowles, Mineral Technologist with the U.S. Bureau of Mines, was honored with the degree of Doctor of Philosophy by George Washington University. (Many of our present readers will recognize the late Dr. Bowles as our Government's outstanding expert on asbestos for many years.)

A delayed report from the Department of the Interior indicated production of asbestos in the U.S. for 1920 of 1245 short tons of Chrysotile and 403 tons of Amphibole. Of the Chrysotile, 1200 tons were produced in Arizona.

The Cape Asbestos Company reported earnings after taxes of £17,396 for the year 1921.

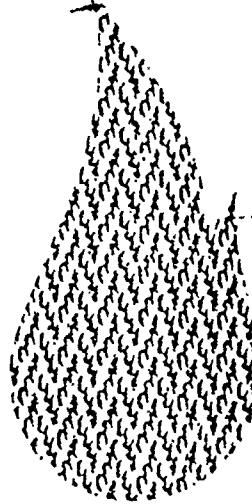
Announcement was made of the death of J. D. Searce, Manager, Asbestos Corporation of Canada, Ltd., of Thetford Mines, P.Q.

It was reported that T. F. Manville, President of the H. W. Johns-Manville Company, together with twenty-nine members of his staff traveled by special Pullman Car to Vimy Ridge and thence to Thetford Mines on a tour of the asbestos mines in those areas.

Maple Leaf Asbestos Corporation Ltd. announced the opening of a U.S. General Sales Office in New York City.

Novatex®

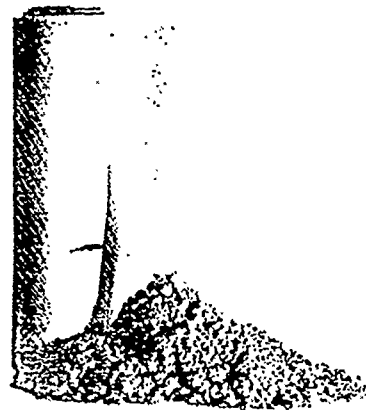
a whole new class of protection



Novatex asbestos textile is lighter, stronger and more heat resistant than conventional asbestos textiles. Incombustible Novatex asbestos textile flexes easier at high temperatures than glass fabrics. No need for lubricants to maintain flex life. Organic solvents . . . alkalis . . . weak acids—Novatex resists them all. Novatex comes in a wide variety of weights and sizes for nearly every type of application. With Novatex you're bound to get an improvement. Contact us.

Raybestos Manhattan

CAPCO JEN 0003464



Two good starts...

Start with GAF asbestos fibers and DRYLON® synthetic fiber felts and you'll end up way ahead in end-product quality.

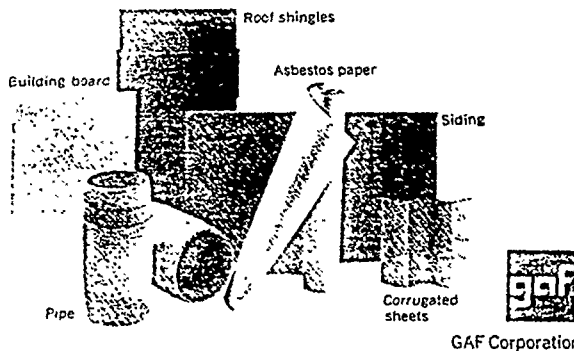
Our involvement with asbestos fiber starts at our own Vermont mines. We control the quality from start to finish. And our standards are high. Partly for selfish reasons. Because much of the fiber ends up in our own asbestos products.

And asbestos fiber is only part of our story. If you make asbestos-cement prod-

ucts, get another head start with Drylon synthetic felt. It drains better, stays clean and keeps its shape longer, and imparts a smoother, more uniform finish to your product.

Put this starting team of quality GAF products to work for you. For full details write to: GAF Corp., Industrial Products Division, 140 W. 51 St., New York, N.Y. 10020. International Operations, 1180 Avenue of the Americas, New York, N.Y. 10036.

toward a lot of happy endings.



CAPCO JEN 0003465