

FILE NAME: Garlock (GAR)

DATE: 1966 Oct 7

DOC#: GAR078

DOCUMENT DESCRIPTION: Meeting Minutes with Attendee List - Asbestos
Textile Institute

**PLAINTIFF'S
EXHIBIT**

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G-347

**Minutes
GENERAL MEETING
Asbestos Textile Institute
October 7, 1966
The Homestead, Hot Springs, Va.**

In Attendance:

AMERICAN ASBESTOS TEXTILE CORP.

J.W. Weber
J.L. Rainey
J.W. Christenbury
D.F. Nealy
H.H. Walter
G.F. Fabel
GARLOCK, INC.
E.W. Houghton

JOHNS-MANVILLE CORP.

W.S. Hough
E.A. Schuman
W.C. Atkinson
I. Barnett
N.W. Hendry (Canadian Johns-Manville)

H.K. PORTER COMPANY, INC.

J.A. Gallagher
J.D. McCluer
D.E. Childers

RAYBESTOS-MANHATTAN, INC.

S.R. Zimmerman, Jr.
J.A. Brown, Jr.
B.Q. Scowcroft
J.P. Wronski
L.C. Williams
J.W. Hawkins

UNITED STATES RUBBER COMPANY

S.J. Peels, Jr.
D.T. Austin, Jr.

ASBESTOS CORPORATION LIMITED

W.W. Oughtred
H.P. Carson
G.F.A. Brink
E.L. Alexander

BELL ASBESTOS MINES LIMITED

F.P. Smith
Wm.J.W. Smith
R. Dodds-Mebron

CASSIAN ASBESTOS CORP. LTD.

J.D. Christian
J.G. Berry

LAKE ASBESTOS OF QUEBEC, LTD.

K.W. Nelson

TURNER BROS. ASBESTOS CO. LTD.

W.H. Deckman

TURNER & NEWALL, LIMITED

B. Lincoln

CADWALADER, WICKERSHAM & TAFT

P. Jay Flocken (Legal Counsel)

TALLMAN-MCCLUSKEY FABRICS CO.

ASBESTOS TEXTILE INSTITUTE

H.E. Sunbury (Secretary)

--- GUESTS ---

P.J. Smith - American Society for Testing & Materials
H.E. Shearer - F&C Corp. - American Viscose Division

******* Minutes *******

1. President John A. Brown, Jr., called the meeting to order at 9:30 A.M. and asked each person to stand and identify himself and his company affiliation.
2. The minutes of the last meeting were presented for reading. Mr. Peels moved that the reading be omitted. Seconded by Mr. Schuman. So voted.

3. The Financial Report was presented by Mr. E.A. Schuman, Treasurer. Mr. Peele moved that it be accepted, seconded by Mr. Hough, and so voted. The report is attached to these minutes.

4. Mr. T.Jay Flocken, Legal Counsel, discussed the background, statutory construction and means of enforcement pertaining to the Sherman Act, with particular emphasis on the per se offenses which have been established under Section I of the Act.

5. Mr. N.W. Hendry, General Sales Manager, Canadian Johns-Manville Asbestos Limited, Asbestos Fibre Division, presented a most interesting report on behalf of the asbestos fibre producers. The full text of his report is attached to these minutes.

6. Mr. Howard E. Shearer, Industrial Development Coordinator, FMC Corp. American Viscose Division, Marcus Hook, Pa., addressed the meeting. His subject, "Some Fiber Relationships of Interest to the Asbestos Textile Manufacturer", was most informative. Assisted by photomicrographic slides, Mr. Shearer explained the various steps in the manufacture of rayon and distinguishing features of the many descriptions of staple produced by the American Viscose Division. It was indicated that the uniform diameters and lengths of a crimped rayon with a serrated cross section; and its cohesive and processing properties enhanced by the presence of a delustrant and special lubricating finish, make such a staple especially attractive as a carrying fiber for spinning of asbestos. President Brown expressed to Mr. Shearer our appreciation for his fine talk.

7. The committee reports were given by the respective chairmen as listed below. The full text of their reports is attached to these minutes.

Air Hygiene & Manufacturing Committee - W.C. Atkinson, Chm.
Sales Promotion Committee - W.S. Hough, Chairman
Technical Committee - J.D. McCluer, Chairman
Fiber Testing Committee - J.P. Wronski, Chairman

8. President Brown reported with deep regret the death of T.C. McCluskey, President of Tallman-McCluskey Fabrics Company, which occurred on July 18, 1966. Mr. McCluskey was a most loyal supporter of the various activities of the A.T.I., and had served as its treasurer in 1958, and as Vice President in 1961 and 1962. President Brown stated that he had written a letter of sympathy to Mrs. McCluskey on behalf of the Institute, and the letter is made a part of these minutes.

9. Mr. Peele, Chairman of the Nominating Committee, reported that the members of the Board of Governors for the coming year would be:

J.A. Brown, Jr. - Raybestos-Manhattan, Inc.
J.A. Gallagher - H.K. Porter Company, Inc.
E.A. Schuman - Johns-Manville Corporation
S.J. Peele, Jr. - United States Rubber Company
J.L. Mitchell - Tallman-McCluskey Fabrics Company
J.L. Rainey - American Asbestos Textile Corporation
G.P. Wiess - Garlock, Inc.

10. Mr. Peele informed the members that the Board of Governors had met on October 6, 1966, and elected the following officers to serve in the coming year:

President - J.L. Rainey, American Asbestos Textile Corporation
Vice President - E.A. Schuman, Johns-Manville Corporation
Treasurer - N.L.A. Martucci, Garlock, Inc.

11. President Brown stated that the present chairmen of Air Hygiene & Mfg., Technical, Sales Promotion and Fiber Testing Committees, all of whom have completed only one year of the normal two year service, would be continued for another year without change.

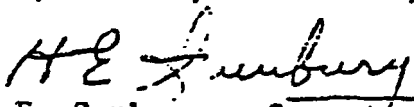
12. President Brown, retiring president, was presented with a handsome ATIOS clock on behalf of the members, by Mr. Peele, in appreciation of his leadership of the Institute during the past two years. President Brown expressed his thanks for the gift with appropriate remarks, and said that it had been a most pleasurable and worthwhile experience to have had the opportunity to serve the Institute as its President. He thanked the members and the Board of Governors for the fine cooperation given him during his tenure of office.

13. President Brown commented on the fact that so many of the members had brought their respective wives to this meeting (about 30) and remarked that the ladies had contributed a great deal to the social success and good fellowship so evident in the two days preceding this General Meeting.

14. President Brown announced that the next regular meeting of the Institute would be held on February 9-10, 1967, at the CHERRY HILL INN, Cherry Hill, N.J. The Cherry Hill Inn is well-known for its new and exceptionally fine accommodations. It is located near Camden, N.J., just across the river from Philadelphia. It is convenient by TAXI to Philadelphia's trains and airports, and also is close to the New Jersey Turnpike for those who drive their cars to the meeting.

15. There being no further business to come before this meeting, it was duly adjourned.

Respectfully submitted,


H.E. Sunbury - Secretary

ASBESTOS TUMOR INSTITUTE

Report of Funds

September 9, 1966

Balance on Hand at Last Report, May 9, 1966

General Fund	7415.41
Savings Fund	19009.96
Petty Cash Fund	<u>28.28</u>

\$26453.65

Receipts

To Savings Fund (Interest)	213.30
To General Fund (1966 dues)	500.00
To General Fund (Book Sales)	83.52
To General Fund (Assessments Fibre Test Manual)	<u>5768.91</u>

6565.73

Total On Hand and Received

33019.38

Disbursements

Legal Retainer (six mos ending 8/31)	1005.28
Secretary's Salary (3 mos.)	359.25
F.I.C.A. Tax (2nd Qtr 1966)	31.50
Secretary's travel	194.05
Office rent (3 mos.)	225.00
Exhibit expense	62.60
Fibre Test Manual Expense	5478.43
Handbook expense (3rd Edition)	999.00
Printing & Office Supplies	175.00
Stenographic	27.50
Meeting Expense (June 1966)	773.34
Insurance (3 year renewals)	115.00
Flowers (T.C. McCluskey)	21.65
Telephone (4 mos.)	122.63
Petty Cash (Vouchers 239-266 incl.)	<u>108.10</u>

9651.33

Balance on Hand as of Sept. 9, 1966

23368.05

Funds

General Fund (Bank Statement of Sept. 9, 1966)	4067.89
Savings Fund	19223.26
Petty Cash Fund	<u>76.90</u>

Total Funds

\$ 23368.05

Assets as of Sept. 9, 1966

General Fund	4067.89
Savings Fund	19223.26
Petty cash on hand	76.90
Accounts Receivable (Book Sales)	96.03
Accounts Receivable (F. Test Man. Assessmt)	251.52 (*)
Postage on Hand	4.50
Furniture & Equipment (Nominal Value)	<u>1.00</u>

Total Assets

\$ 23721.10

Liabilities (None)

Net Worth

\$ 23721.10

Respectfully submitted

H.E. Sweeney - Asst. Treasurer

(*) Paid 9/15/66

FIBRE COMMITTEE REPORT

The year 1966 has been a difficult one for the asbestos fibre producers in that asbestos fibre shipments were interrupted for a five week period in May and June by a stevedore strike at the St. Lawrence River ports. Secondly, a strike of the Canadian railroad workers occurred in the latter part of August and early September for a ten day period. Inflation is of increasing concern on the Canadian scene with labour assuming more militant tendencies and demanding higher and higher wages. New asbestos mines under development include the Clinton Creek operation of Cassiar which is scheduled for production in 1968. The Asbestos Hill development of Asbestos Corporation in the Ungava region of Quebec is scheduled for production in 1970. These two mining operations will produce additional asbestos cement fibres to supply the growing market in this field where the demand is increasing throughout the world. Countries in the Far East and in South America continue to expand their production of asbestos cement products with the requirement for asbestos fibres. The demand for asbestos fibres in brake linings particularly in the United States continues at a high level and this demand is expected to continue at the same strength providing the automobile industry continues to produce at a record pace. Also, the many miscellaneous uses for asbestos fibre continue in good demand and it is encouraging to note a broader usage of asbestos fibre from year to year.

Production of asbestos fibre in Russia continues to exceed that of Canada although sales outside the borders of that country are limited to Europe, India and Japan at a rate estimated at 175,000 to 200,000 tons per year. Difficult times are being experienced by T. & N. in Southern Rhodesia whereby the asbestos fibre from that country is being embargoed in many countries of the world and we see no early termination to the problems related thereto. The economy of North America continues at a high level and no indication of a slowdown in demand for asbestos fibre is yet apparent although it is expected that the continuation of the tight money policy in the U.S. and Canada will have its effects in the near term. The currency problems of many countries in South America has lessened during the past two years and this has resulted in a higher demand for asbestos fibre in many of the South American countries. The economy of Europe continues at a high level with the exception of the United Kingdom where severe problems indicate difficult times for the year 1967. Certainly, the problems in the United Kingdom will affect the asbestos industry in the near term. The demand for asbestos fibre in the Far East is continuing to grow at a rapid rate with the increasing production of asbestos cement products. It is expected that these markets will continue to grow at a rapid rate providing currency problems can be solved and providing that external forces do not disturb the normal political situations.

Concern has been registered regarding the possibility of asbestos as a health hazard such that it is pertinent to mention that the Quebec Asbestos Mining Association has embarked on a broad medical study which will involve the expenditure of substantial sums of money. Three very competent medical personnel have been retained to conduct basic studies on asbestos fibre from the standpoint of its effect on the health of human beings. Sufficient information is not yet at hand to provide the basis for any publication and it will be some time before such is available.

MINUTES
AIR HYGIENE AND MANUFACTURING COMMITTEE
OCTOBER 6, 1966
THE HOMESTEAD - HOT SPRINGS, VA.

Attending:

Members:	W.C. Atkinson, Chairman	Johns-Manville Products Corp.
	J.A. Gallagher	H.K. Porter Co., Inc.
	L.C. Williams	Raybestos-Manhattan, Inc.
	H. Walter	American Asbestos Textile Corp.
	K.W. Nelson	American Smelting & Refining Co.
Absent:	R.B. Smith	Raybestos-Manhattan, Inc.
	A.G. Link	United States Rubber Co.
	C.L. Sheckler	Johns-Manville Products Corp.
	T.D. McCluskey	Tallman McCluskey Fabrics Co.

Bausch and Lomb Automatic Dust Counter

Mr. Nelson of American Smelting and Refining Co. gave a demonstration of the Bausch and Lomb 40-2 Automatic Dust Counter. The Committee was impressed with its simplicity of operation and its versatility.

It is portable and can be carried around with ease, and requires no special training to operate. Maintenance is practically nil. By a simple adjustment the range of particle size to be counted can be changed. It also has the advantage that it gives instant and continuous readings which, with the addition of a recorder, makes it possible to set the equipment up at a given station and monitor the atmospheric conditions for extended periods of time.

The present cost of the instrument is \$3,800. plus \$800. for the recorder.

It was suggested, for consideration, that the A.T.I. purchase one which could be rented or loaned to individual member companies.

There was also some discussion on literature received from the Union Industrial Equipment Corp. which described the Unico Cassella Gravimetric Dust Sampler. This instrument still requires manual counting the same as the Greenberg Smith method.

Environmental Health Survey

A letter from Dr. Lewis J. Cralley was read in which he stated that they expect to complete the in-plant phase of their study within a year from this fall.

He also enclosed copies of the following papers they have written on the environmental phase of the asbestos study since its beginning. Additional copies may be obtained by writing direct to:

Lewis J. Cralley, Scientist Director
Occupational Health Research & Training Facility
Bureau of State Services
1014 Broadway
Cincinnati, Ohio 45202

Environmental Health Survey - continued

- 1.) Ayer, et al: A comparison of impinger and membrane filter techniques for evaluating air samples in asbestos plants.
- 2.) Ayer, et al: Relationship of impinger counts to fiber concentrations by membrane filter in asbestos textile plants.
- 3.) Ayer and Lynch: Notes and fibers in the air of asbestos processing plants and hygienic criteria for air-borne asbestos.
- 4.) Cralley, et al: Occupational health study of the asbestos products industry in the United States.
- 5.) Lynch: Asbestos study - Procedures and findings.
- 6.) Lynch and Ayer: Measurement of dust exposures in the asbestos textile industry.

"CHEMICAL WEEK" Article

There was a joint discussion with the Sales Promotion Committee on an article printed in the September 10th issue of "CHEMICAL WEEK" entitled "Asbestos: Awaiting Trial".

A full report on the actions to be taken will be reported in the minutes of the Sales Promotion Committee.

Respectfully submitted,

W.C. Atkinson, Chairman
Air Hygiene & Mfg. Committee

November 9, 1966

Minutes:

**SALES PROMOTION COMMITTEE
ASBESTOS TEXTILE INSTITUTE
OCTOBER 6th, 1966
AT HOT SPRINGS, VIRGINIA**

The Sales Promotion Committee met on October 6, 1966. All member companies were present except H.K. Porter Co. and Tallman-McCluskey Fabrics, Inc.

As a result of a direct mail campaign to a selected list of colleges and universities with Engineering Departments, we have had some response in the matter of interest in using our A.T.I. Exhibit in their schools.

The display has been sent to Alfred University School of Ceramics at Alfred, New York, assigned for the fall semester until February 1st, 1967. We have tentative assignment of the exhibit for Stevens Institute of Technology, Hoboken, New Jersey, from February 1st, 1967 to June 1st, 1967. We have possible interest from South Dakota School of Mines for some later date.

At an appropriate time in 1967, we will send out a similar, direct mail letter to the remaining portion of the mailing list of universities.

A report was made that a small quantity of Japanese made Asbestos Cloth has been reported sold in the midwest area as low as 46¢ per lb. This situation is being watched carefully.

Final decisions on all copy has been made for publishing the Third Edition of the Asbestos Textile Handbook. We have coordinated in the Handbook all of the ASTM specifications revised and approved by ASTM for our publication.

Contract has been let for publication of 12,500 copies to Confort & Company, New York City, with an approximate six weeks' delivery promised as of October 17th, 1966.

The Sales Promotion Committee agreed to recommend to the Board of Governors sending a copy of the A.T.I. Handbook to all important engineering school libraries.

Discussion took place as to the advisability of expanding our inter-member reporting of business levels of production and sales of individual companies to supplement Caruso reports. No decision was concluded.

A supplementary meeting was held with all interested A.T.I. members concerning recent adverse publicity of asbestos products as written in Chemical Week Magazine. Members of the Asbestos Fibre Committee and the Technical Committee joined with the Sales Promotion Committee in this discussion. Sitting as a Committee Of The Whole, it was felt advisable to register with Chemical Week our concern of their irresponsible article in the September 10th, 1966, issue.

Thru our legal counsel, we plan to register our dissatisfaction both verbally and in written form.

We rejected at this time a plan of trying to obtain a written statement from either Dr. Cralley or from the Industrial Hygiene Foundation which could be used by sales organizations to refute adverse publicity.

(Signed) W.S. Hough

W.S. Hough - Chairman

MINUTES: Asbestos Textile Institute
Technical Committee Report
October 6, 1966

The meeting was held at The Homestead, Hot Springs, Virginia

IN ATTENDANCE: J. W. Hawkins - Raybestos-Manhattan, Inc.
Irvin Barnett - Johns-Manville Corporation
G. E. Houghton - Garlock, Inc.
D. T. Austin - U. S. Rubber Company
Walter M. Deckman - Turner Brothers Asbestos Company
D. F. Quealy - American Asbestos Company
J. D. McCluer - H. K. Porter Company, Inc.
Paul Smith - ASTM
Herbert E. Sunbury - Asbestos Textile Institute

SUBJECTS DISCUSSED:

Revision of ASTM Specifications

In order to give an intelligent report of the meeting on Thursday, October 6th., it is necessary to describe the activities of the committee since the June meeting.

Following the June meeting, the committee reviewed and reported discrepancies in the 1966 ASTM preprint on D315, D1571, and D2100. These were reported to Paul Smith, ASTM.

In the meantime a conflict in use of terms was noted wherein the word "Type" was used in two places to imply different meanings. In D315 and D1571 Types 1 to 5 designate the various kinds of yarn that can be used. In D2100 Types 11, 1V, and VI designate the magnetic rating of various asbestos textiles.

In order to avoid the conflict it was recommended that the word "Class" be used in designating the kinds of yarn used in D315 and D1571 and the word "Type" be retained in D2100. In order to give all members of the committee an opportunity to express confirmation of the change, a letter ballot was mailed by the chairman to each member with the request to vote for or against the change. The response was 100% for the change.

This information was relayed to Paul Smith for proper changes in the ASTM draft and also to Bill Hough and Howard Bain for proper insertion in the new A.T.I. Handbook. This completed the committee's work in assisting Sales Promotion with the A.T.I. Handbook.

Copies of the 4th. Draft of D1918, as set up at the June meeting were distributed to all members and a copy to Dr. Scroggie. Comments and recommended changes on this draft were received from Dr. Scroggie in July. Copies of his comments were sent to all members prior to the August 18th. and 19th. meeting.

Meeting of the Technical Committee August 18th. - 19th., 1966 at ASTM
Headquarters, Philadelphia, Pennsylvania

IN ATTENDANCE: Irvin Barnett - Johns-Manville Corporation
W. S. Hough - Johns-Manville Corporation
J. W. Hawkins - Raybestos-Manhattan, Inc.
William Maaskant - American Asbestos Company
G. E. Houghton - Garlock, Inc.
J. D. McCluer - H. K. Porter Company, Inc.
Paul Smith - ASTM
Arthur G. Scroggie - ASTM
Herbert Sunbury - A.T.I.

On Thursday August 18th., the committee set up the 2nd. Draft of D299 yarns. Bill Hough, chairman of the Sales Promotion Committee met with the committee that day and his assistance was greatly appreciated.

On Friday August 19th., Dr. Scroggie met with the committee and with his assistance a better arrangement of the specification was formulated. Time did not permit at this meeting the consideration of the various equations involved.

Following the August meeting several exchanges by correspondence have been made within the committee and with Dr. Scroggie on the equations involved in D1918,

At the present meeting on October 6th., consideration was given to D1918 and so far as the editorial script is concerned, agreement seems to have been reached between the committee and Dr. Scroggie's committee. The equations are yet to be resolved.

Due to the urgency of completing the revision of the specifications, the committee felt that an intermediate meeting should be held. Decision was to have this on Thursday and Friday, December 15th. and 16th., 1966 at ASTM Headquarters, Philadelphia, Pennsylvania.

J. D. McCluer
Chairman of the Technical Committee

Minutes: ASBESTOS TEXTILE INSTITUTE
FIBER TESTING COMMITTEE
October 5-7, 1966
Hot Springs, Virginia

Attending:

J. Wronski
J. Berry
G.F.A. Brink
D.E. Childers
J. Christian
R. Dodds-Hebron
B. Lincoln

Raybestos-Manhattan, Inc.
Cassiar Asbestos Corp. Ltd
Asbestos Corp., Ltd.
H.K. Porter, Inc.
Cassiar Asbestos Corp., Lt
Bell Asbestos Mines, Ltd.
Turner & Newall, Ltd.

Subjects Discussed

1. Mr. Dewey Childers of H.K. Porter discussed the present status of a test procedure he is trying to develop to determine the spicule content of milled textile grade fibers. So far, results have been inconclusive. By the time of the next meeting he hopes to know definitely whether his apparatus will function well enough to do the job he wants.
2. Members of the Fiber Testing Committee representing both fiber producers and consumers plan to attend the next meeting of ASTM Sub Committee A-4 on Asbestos Textiles which meets in New York City the 19th of this month.

One of the items scheduled to be taken up at this meeting is the revision of ASTM test procedure D-1118, which is the procedure for determining the magnetic rating of asbestos.

Since the magnetic rating test presented in our test manual is patterned very closely after the ASTM procedure, the Committee feels we should follow any proposed changes in the ASTM procedure very closely to see if the proposed changes might suggest any modifications to our own procedure.

Results of the ASTM deliberations will be reported to Committee members at the next meeting.

3. The Committee discussed a situation that arose occasionally in which test values for fiber openness or surface area reported by a mine sometimes differed

appreciably from the values found by the fiber purchaser on the same lot of fiber. It was agreed that this problem arose when the miner made his tests on fiber before it was packed in shipping bags and the purchaser made his tests on packed fiber removed from the bag. The effect of packing makes a big difference in fiber openness test values.

This situation emphasized the need for both the miner and the purchaser to condition and prepare the fibers in the same way before any tests are made on them. At present the best procedure we have for this is outlined in the first test in our test manual under Method of Sampling and Preparation.

4. Mr. Gay Brink of Asbestos Corporation briefly reviewed for the Committee the results of the recent meeting of ASTM Committee D-30 on Inorganic and High Modulus Fibers. This is the committee established a few years ago to handle standards and test procedures on fibers and whiskers made of such materials as boron, carbon, aluminum oxide and other materials as well as on asbestos.

Respectfully submitted,

J. Wronski