

Minutes
GENERAL MEETING

Asbestos Textile Institute

June 9, 1967

Lucerne Motel, Montreal, Canada

In Attendance:

AMERICAN ASBESTOS TEXTILE CORP.

J.L. Rainey
Wm. Kaaskant
D.F. Quealy
J.W. Christenbury
G.S. Fabel

CARLOCK, INC.

C.E. Houghton

JOHNS-MANVILLE CORP.

E.A. Schuman
W.C. Atkinson
I. Barnett
W.C. Streib
C.L. Sheckler

H.K. PORTER COMPANY, INC.

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

RAYBESTOS-MANHATTAN, INC.

J.A. Brown, Jr.
L.C. Williams
J.P. Wronski
R.B. Smith
J.W. Hawkins

UNIROYAL, INC.

S.J. Peele, Jr.
R.P. Clark
D.T. Austin, Jr.
H.W. Willingham

GUESTS

Norman L. Barr, Atlas Asbestos Co.
J.A. Morton, Atlas Asbestos Co.
P.J. Smith, A.S.T.M.
H.R. Lynch, Davis & Furber Machine Co.
Geo. J. Harris, Harco Chemical, Inc.
J.A. Bettes, Jr., Raybestos-Manhattan, Inc. (Retired)

ASBESTOS CORPORATION LIMITED

H.P. Carson
P.E. Leclerc
G.F.A. Brink

BELL ASBESTOS MINES LIMITED

Wm. J.W. Smith
R. Dodds-Hebron
Walter Smith
G.W. Smith

CANADIAN JOHNS-MANVILLE CO., LTD.

N.W. Hendry

LAKE ASBESTOS OF QUEBEC LTD.

E.A. Farrell
R.P. Gagnon

CASSIAR ASBESTOS CORP., LTD.

J.D. Christian

TURNER BROS. ASBESTOS CO. LTD.

W.H. Deckman

TURNER & NEWALL LTD.

D. Lincoln

TALLMAN-McCLUSKEY FABRICS CO.

J.L. Fitchell

CADWALADER, WICKERSHAM & TAFT

F. Jay Flocken (Legal Counsel)

ASBESTOS TEXTILE INSTITUTE

H.E. Sunbury (Secretary)

PLAINTIFF'S
EXHIBIT

G-290

***** Minutes *****

1. President Rainey called the meeting to order at 9:45 A.M., and asked each person in attendance to stand and identify himself and his company affiliation. He expressed, on behalf of the members, our deep appreciation for the kind invitation from the "miners" to hold this meeting in Canada, and for their splendid hospitality and superb arrangements for our group visitation to Expo 67 on the previous day. Our sincere thanks are extended to Asbestos Corporation Limited; Bell Asbestos Mines Limited; Cassiar Asbestos Corporation Ltd.; Johns-Manville of Canada; and Lake Asbestos of Quebec, Ltd., for their most generous "hosting" of the reception and luncheon at Expo 67 on June 8th. Particularly appreciated was the fine job done by Mr. Wm. J.W. Smith, chairman of the "Miners" sub-committee, in arranging the many details incidental to transportation of our members to Expo 67, free ticket of admission, and the grand reception and luncheon held in the Quebec Pavilion! It proved to be a most enjoyable and never to be forgotten occasion!

2. The minutes of the last meeting were presented for reading. Mr. J.W. Christenbury moved that reading be omitted; seconded by Mr. W.C. Streib. So voted.

3. The Financial Report was presented by Vice President Schuman due to the absence of Treasurer Martucci. Mr. Atkinson moved it be accepted; seconded by Mr. Peele, and so voted. The report is attached to these minutes.

4. The Fibre Producers Report was given by Mr. J.D. Christian, President of the Cassiar Asbestos Corporation.

Mr. Christian, in commenting on the present situation, said that today's high level of demand is catching up with the supply, and as a consequence some grades are "tight" in respect to certain of the spinning grades. Suggested that it would be advisable for spinners to check with their sources of supply about forward requirements for special grades of spinning fibres.

5. In lieu of a prepared talk, Legal Counsel P. Jay Flocken asked if there were any questions from the floor. This proved to be an interesting innovation - quite a few questions were asked - and Mr. Flocken replied to each at considerable length. The success of this initial trial justifies its repetition by Counsel Flocken at some future meeting.

6. Mr. Harold R. Lynch, Davis & Furber Machine Co., North Andover, Mass., gave a Technical Talk entitled: "Researching a Fresh Approach for the Carding of Asbestos Fibers, and the Promising New Rubber Design for Condensing Asbestos Roving."

Mr. Lynch said that his company had developed a carding machine for synthetic fibers that would produce more pounds per hour than woolen or worsted cards. Now have 275 units in operation on synthetic fiber. Believe they have basic concept of right approach for asbestos fiber, and his company proposes to give it top priority in their development and engineering work. Some details are still to be settled such as type of card clothing, speeds, number of rolls, doffers, etc., Did

encounter difficulty on trial runs of new card using asbestos fiber - experiments are being conducted at both North Andover, Mass., and Charlotte, N.C. Has one report of a very successful spinning test at a southern asbestos plant. His company solicits advice and cooperation of asbestos plants to help bring this carding machine development to the most successful conclusion possible, and for the mutual benefit of all.

The second part of Mr. Lynch's talk was devoted to the Rub Aprons used for condensing the asbestos roving as it comes from the carding machine. The cost of the chrome tanned leather aprons is high - there is a limited supply of suitable bull-hides and these have to be bought at auction in Spain or other parts of the European continent; none are available elsewhere. Each hide has to be individually inspected before purchase. While price for chrome leather aprons is high, there is virtually no profit to Davis & Furber Co. in supplying them due to the high claims for alleged defects, short life, or whatever.

About two years ago Davis & Furber began to look for a satisfactory replacement for leather rub aprons - one that would not glaze too quickly, not be unduly affected by atmospheric changes, and be free from flat spots, glued laps, or hard "back-bone" area. At present it appears that a grooved apron is necessary, and diamond pattern of grooving is best. The number of grooves, and depth of grooves has some relation to the cut number of the roving being produced, at least that is the tentative thinking from experiments to date. There are still some obstacles, for example, pure asbestos roving (no organic content) and also the production of core roving.

Mr. Lynch asked cooperation of the industry in furthering the testing of possible replacements for leather rub aprons, saying that only thru such cooperation could success be attained.

In response to a question from the floor, Mr. Lynch stated that his company had tried to work with DuPont's CORFAL material, but found it unsuitable for rub apron use.

President Rainey thanked Mr. Lynch for his fine talk, and many favorable comments were made about it by various members following the meeting.

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 & Mfg. Committee - W.C. Atkinson, Chm.
Sales Promotion Committee - E.A. Schuman, Chm.
Technical Committee - J.D. McCluer, Chm.
Fiber Testing Committee - J.P. Wronski, Chm.

8. President Rainey extended congratulations to Mr. W.W. Oughtred, on his recent election as President of Asbestos Corporation Limited. Mr. R.P. Carson offered to convey this to Mr. Oughtred, as he was not present.

9. President Rainey paid tribute to Mr. Geo.W. Smith who retired from the presidency of Bell Asbestos Mines Ltd. last November, and expressed our gratification that he was in attendance at this meeting.

10. President Rainey presented Mr. Staton J. Peele, Jr., with a "Certificate of Appreciation" in the form of a handsome plaque. Mr. Peele, who served the Institute as president in 1963 and 1964, and as chairman of the Sales Promotion Committee for two years prior to that, will not be active in A.T.I. due to a realignment of his duties at UniRoyal, Inc. Mr. Peele responded to the presentation in a most suitable manner, and expressed his deep appreciation for the plaque, and his regret that he could not continue to be active in A.T.I.

11. There being no further business to come before the meeting, it was adjourned for luncheon, to which the wives of members had been invited. This proved to be a most enjoyable affair, enhanced by the thoughtful presentation of a corsage to each lady on behalf of the "Miners", for which the ladies were most appreciative. Following luncheon the meeting was addressed by President Rainey who thanked the "Miners" for their splendid and generous hospitality in entertaining A.T.I. members and their wives at Exno 67 the previous day.

12. Meeting adjourned.

Respectfully submitted,

H.E. Sunbury
H.E. Sunbury, Secretary

() ASBESTOS TEXTILE INSTITUTE ()

Report of Funds

May 8, 1967

Balance on Hand at Last Report, January 10, 1967

General Fund	\$	447.64	
Savings Fund		19504.74	
Petty Cash Fund		<u>80.37</u>	
			\$ 19832.75

Receipts

To Savings Fund (Interest - 4 mos.)	285.00	(Est.)
To General Fund (Book Sales)	127.80	
To General Fund (Handbook Acct.)	6327.72	
To General Fund (1967 Dues)	<u>8750.00</u>	

Total On Hand and Received		<u>15490.52</u>
		\$ 35323.27

Disbursements

Legal Retainer (3 mos ending 2/28/67)	500.00
Legal Expense (" " ")	25.80
Secretary's salary (4 mos)	478.00
P.I.C.A. Tax (1st Qtr. 1967)	31.50
Secretary's travel	130.20
Office rent (4 mos.)	300.00
Exhibit expense	40.24
Handbook expense (3rd Edition)	7051.98
Printing & office supplies	112.01
Stenographic expense	100.00
Meeting expense (February 1967)	803.99
Telephone (4 mos.)	155.24
Petty Cash vouchers (289-309 incl.)	<u>75.44</u>

9804.40

Balance On Hand as of May 8, 1967		<u>\$ 25518.87</u>
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Funds

General Fund (Bank Statement-May 8, 1967)	5924.20
Savings Fund	19589.74 (*)
Petty Cash Fund	<u>4.93</u>

Total Funds		<u>\$ 25518.87</u>
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Assets as of May 8, 1967

General Fund	\$	5924.20
Savings Fund		19589.74
Petty Cash on Hand		4.93
Accts. Receivable (Book Sales)		48.51
" " (Dues for 1967)		500.00
" " (Handbook Acct.)		3210.01
Postage on Hand		4.50
Furniture & Equipment (Nominal Value)		<u>1.00</u>

Total Assets		<u>\$ 29290.69</u>
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Liabilities (None)

<u>Net Worth</u>		<u>\$ 29290.69</u>
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(*) Includes \$285.00 interest estimated for period 1/1/67-4/30/67

H.E. Sunbury, Asst. Treasurer

Minutes

ASBESTOS TEXTILE INSTITUTE
Air Hygiene and Manufacturing Committee
June 8, 1967
Lucerne Hotel - Montreal, Canada

Attending

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

Bausch & Lomb Automatic Dust Counter

At the previous meeting the Board of Governors was asked to consider the purchase of a 40-2 Automatic Dust Counter for use by the member companies.

The Board of Governors, in turn, asked for some detailed information on which to base a decision.

The Committee reviewed the various advantages of the machine among which were its flexibility of use, simplicity - no training required, reproducibility - the counting is automatic and eliminates the human error. In addition, with the recording attachment it makes it possible to monitor a specific area over an extended period of time.

It was decided that the Committee would control the distribution of the machine and it was understood that all results from its use would be reported to the Committee. Arrangements for the transfer of the machine from one company to the next will be arranged between the two members. It was also decided that there would be no fee charged for its use by member companies.

The Board of Governors approved the purchase and authorized the Chairman to negotiate the purchase.

Asbestos Textile Industry Health Regulations in Great Britain

Mr. C.L. Sheckler read a list of proposed regulations for the manufacture and use of asbestos textiles in England.

The list has been submitted to the industry for review and comment.

In brief, they are proposing the manufacture of asbestos textiles shall be a totally enclosed operation in which the operators will never be exposed to any visible dust. All surfaces, building and machine, shall be polished and resist dust accumulation. All

materials shall be handled and transported in sealed containers. Vacuum cleaners shall not exhaust air into the building.

The Committee found the recommendations impractical and extreme. However, there seems to be no doubt that the British government will attempt to enforce them.

W.C. Atkinson, Chairman

**SALES PROMOTION COMMITTEE MEETING
ASBESTOS TEXTILE INSTITUTE
June 8, 1967
At LUCERNE HOTEL, MONTREAL, CANADA**

Attending our meeting were Messrs. J.L. Rainey and J. Christenbury of American Asbestos Textile Corp., J.A. Brown, Jr. of Raybestos Manhattan, Inc., S.J. Peele, Jr. and R.P. Clarke of U.S. Rubber Co., J.L. Mitchell of Tallman McCluskey Fabrics Inc., P.J. Flocken (legal counsel), H.E. Sunbury (secretary) and E.A. Schuman of Johns-Manville.

The four display cabinets are currently on loan to Michigan State University until October, 1967. At present there is no specific place to send them as yet at the termination of their stay at Michigan State. The cabinets need refurbishing and whether money will be spent for this or utilized to better advantage in some other promotional activity has not yet been decided.

It was reported that the asbestos textile volume from Japan seems to be increasing. In addition to asbestos cloth, we now find asbestos tape coming into the U.S. The cloth and tape appear to be acceptable products and sell for around 70¢ lb. There has even been some aluminized asbestos cloth for the safety clothing market come in from Japan. Some of us have even seen an asbestos metal reinforced yarn made by the Japanese using 5 grade fiber.

The 3rd Edition of the Asbestos Textile Handbook has been printed and distributed to all member companies. This handbook is self-supporting and no charges will be applied to the A.T.I. This edition had 12,534 copies printed at a unit cost of 66.3¢ whereas the previous 1961 edition had 15,125 copies printed at a unit cost of 72.8¢. The current edition is, therefore, 9% lower than the 1961 edition despite a smaller number of copies printed and general increases in materials and labor. Mr. W.S. Hough and all others who worked on the handbook should be complimented on putting out a high quality book at such a reasonable cost.

It was proposed that the A.T.I. buy extra copies of the Asbestos magazine and have them sent on a regular basis to prospective asbestos textile customers. Mr. Christenbury of American Asbestos Textile Corp. is to contact the magazine and report to the Sales Promotion Committee at our next meeting.

It was agreed that our Secretary, Mr. Sunbury, from now on will send in a monthly business condition report of the Asbestos Textile industry to the Asbestos magazine.

Mr. Staton Peele, Jr. is being reassigned by his company and will no longer participate in the asbestos textile branch of the business. In appreciation of his guidance and loyalty during the past few years the Board of Governors personally presented Mr. Peele with a yachting wrist watch suitably inscribed from the Board members.

Welcomed to the Sales Promotion Committee was Mr. Richard P. Clark, replacing Mr. Peele, as UniRoyal's representative.

E.A. Schuman, Chairman

MINUTES: Asbestos Textile Institute
Technical Committee Report
June 8, 1967

The meeting was held at Luceine Motel Annex, Montreal, Canada

IN ATTENDANCE: William Maaskant - American Asbestos Company
Dan F. Quealy - American Asbestos Company
J.W. Hawkins - Raybestos-Manhattan, Inc.
I. Barnett - Johns-Manville Corporation
G. E. Houghton - Garlock, Inc.
D. T. Austin - Uniroyal, ~~Fiber & Textile~~ Inc.
J. D. McCluer - H. K. Porter Company, Inc.
Walter Deckman - Turner & Newall Limited
Paul Smith - ASTM

SUBJECTS DISCUSSED:

Revision of ASTM Specifications D 299 and D 375

Since the last regular meeting in February, the committee had an intermediate meeting on May 11th. and 12th. at ASTM Headquarter, Philadelphia, Pennsylvania. On the first day of this meeting, Thursday, further revision was made on D 299, Yarn, wherein the discussion was based on comments and recommendations from Dr. Scroggie's Sc-6 Committee, most of which were accepted, and by way of this discussion, the 6th. Draft of D 299 was set up. Dr. Scroggie met with the committee on that day, and it was believed by all members present that this draft was a very acceptable version which would require very little editorial change.

On the second day, Friday, of this meeting, the committee set up the 1st. Draft of D 375, Roving. The reason for selecting Roving next was due to it's similarity to D 299.

Revision of ASTM Specification D 1118

Also, on Friday of this meeting, Paul Nicodemus met with the committee and D 1118, Test for Magnetic Rating, was discussed with Paul Nicodemus leading the discussion. Since this will be a long range project, it was decided to start the project with a "round robin" test wherein John Hawkins, who is chairman of the Subcommittee, offered to prepare the samples. There were to be two sets of samples, one set for the Mapes Magnetic Analyzer, 10 gram sample, and one set for the T. & N. Magnetic Analyzer, 15 gram samples. Samples were to be prepared and sealed so that the same identical samples could be circulated and tested by all members. Each set of samples were to be prepared from asbestos fibers of the following

MINUTES: TECHNICAL COMMITTEE

approximate magnetic rating: 0.25, 0.75, 2.0, and 4.0 MR, it being understood that the samples in one set would not necessarily be of the exact MR as those of the other set. These were to be sent to all members of A.T.I. and Subcommittee A-4 who have the ASTM and/or T. & N. instrument(s). Members were to test samples, report to John Hawkins, and send samples on according to a pre-arranged routing. Included in the series of tests were to be testing the set of standards furnished with the T. & N. instrument and testing of a set of standards prepared by the late Dr. Shaw for the ASTM instrument.

In attendance at the May 11th. and 12th. meeting were:

William Maaskant.....	American Asbestos Company.....	May 11th. & 12th.
J. W. Hawkins.....	Raybestos-Manhattan, Inc.....	May 11th. & 12th.
I. Barnett.....	Johns-Manville Research Center.....	May 12th.
Phil Rogers.....	Johns-Manville Research Center.....	May 11th.
G. E. Houghton.....	Garlock, Inc.....	May 11th. & 12th.
Gary Garrison.....	Garlock, Inc.....	May 11th. & 12th.
D. T. Austin	Uniroyal, Fiber & Textile, Inc.....	May 11th. & 12th.
J. D. McCluer.....	H. K. Porter Company, Inc.....	May 11th. & 12th.
H. E. Sunbury.....	Asbestos Textile Institute.....	May 11th. & 12th.
P. Smith.....	ASTM.....	May 11th. & 12th.
Dr. A. G. Scroggie.....	ASTM.....	May 11th.
P. O. Nicodemus.....	General Electric Company.....	May 12th.

Revision of ASTM Specification D 1118

At the committee's present meeting of June 8th., the Fiber Testing and Technical Committees met jointly for a brief time and re-discussed the project on magnetic rating and "round robin" test. The decision reached at this joint meeting was that since the Fiber Testing Committee had already sent out to all members samples for the T. & N. instrument with detailed instructions for the test, that it would be less confusing to follow through on this series of tests before embarking on a new series as planned at the May 12th. meeting of the Technical Committee. Samples were distributed to all member early in the year by the Fiber Testing Committee consisting of asbestos fibers over a range of M. R.s accompanied with instructions for testing the samples. Samples were to be tested by rotating 90°, 180°, and 270° to ascertain effect of sample position. Also the effect of adjacent bodies was to be determined by placing a heavy steel pipe near the T. & N. instrument to see what effect this would have on the reading.

MINUTES: TECHNICAL COMMITTEE

Revision of ASTM Specification D 299 and D 375

Following the May 11th. and 12th. meeting, the 6th. Draft of D 299 and the 1st. Draft of D 375 as set up at that meeting were sent to Dr. Scroggie for comments. Replies on both were received prior to our present meeting. Most of the changes recommended were accepted in D 299 and by reason of the similarity of the two specifications, the recommended changes in D 375 would be equally acceptable. These two will be rewritten as the 7th. Draft of D 299 and the 2nd. Draft of D 375 and after a circulation for possible discrepancies, will be submitted for letter ballot to A-4 prior to their fall meeting.

Questions came up from Dr. Scroggie and Mr. B. Lincoln regarding the following:

- 1) Should separate columns be inserted in the yarn and roving Tables for meters per kilogram and for tex numbers? Paul Smith consulted the latest ASTM ruling and found that conversion factors in foot notes will suffice.
- 2) To use $\pm 10\%$ tolerance for yards per pound on single yarn, on average of five bobbins and withdraw tolerance on individual test. This is in contrast to the current specification of $\pm 8\%$ on the average test and $\pm 15\%$ on the individual test. The committee's decision was to retain the present tolerance.
- 3) The suggestion that a new Note 1 be inserted which refers to D 1244, Recommended Practice for Designating Yarn Construction was not accepted by the committee. Committee's decision was that it applied to cotton and not to asbestos. It would conflict and confuse.
- 4) Are the illustrations "S" and "Z" for twist necessary? The opinion of the committee was that they are necessary and are essential to readers.

The committee set August 17th. and 18th. as the next intermediate meeting of the Technical Committee in Atlanta. Paul Smith is making a meeting room reservation for these dates at the Marriott Motor Hotel.

J. D. McCluer
Chairman of the Technical Committee

Minutes: () FIBER TESTING COMMITTEE
June 8 - 9, 1967
Lucerne Motel, Montreal Canada

Attending:

G.F.A. Brink
D.E. Childers
J.D. Christian
R. Dodds-Hebron
E.A. Farrell
B. Lincoln
W. Smith
W.C. Streib
J. Wronski

Asbestos Corp., Ltd.
H.K. Porter, Inc.
Cassiar Asbestos Corp., Ltd.
Bell Asbestos Mines, Ltd.
Lake Asbestos of Quebec, Ltd.
Turner & Newall, Ltd.
Bell Asbestos Mines, Ltd.
Johns-Manville Corp.
Raybestos-Manhattan, Inc.

Subjects Discussed

1. The first part of the meeting was held jointly with the Technical Committee members to discuss the Magnetic Rating test. The Technical Committee is currently considering re-writing this test for ASTM (D-1118). The Fiber Testing Committee is also looking into the possibility of re-writing this procedure, which is given in the Test Manual and is essentially the same as the ASTM procedure.

At the last meeting, the Fiber Testing Committee decided to run a number of round robin tests to measure the degree of variation that exists between and within laboratories in tests measuring the magnetite content of fibers. The Technical Committee agreed that it would be best to await the results of these tests before proceeding with further efforts at revising the ASTM procedure.

About half of the participants of the round robin have completed the tests and reported on them. It is anticipated that all tests will be completed by the next meeting and that meaningful data from the tests will be available at that time for a critical evaluation of current methods for measuring magnetite content of fibers.

2. Mr. Christian suggested the need for including statements in the Testing Manual that would caution users on the limitations to be placed on interpreting results obtained from the tests. He proposed to submit formal suggestions at the next meeting
3. The Encyclopedia of Industrial Chemical Analysis is soon to publish a section in volume six on tests pertaining to asbestos. Raybestos-Manhattan was asked to contribute to this section. It was suggested that any A.T.I. member asked to contribute articles on asbestos testing in this publication in the future might first wish to present their contribution to appropriate committees within the A.T.I. for review. Such a review might produce suggestions that could result in a presentation representative of the views of the asbestos industry.

Respectfully submitted,

J. Wronski