

ASBESTOS TEXTILE INSTITUTE MINUTES

1958

MT-003760

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MS 004354

Asbestos Textile Institute - Air Hygiene Committee Proposal for Asbestosis Research

It is the recommendation of the Air Hygiene Committee that the individual members of the Asbestos Textile Institute participate voluntarily in further research of Asbestosis through (1) cardio-pulmonary and (2) autopsy studies.

1. Cardio-pulmonary Study.

The cardio-pulmonary studies would be conducted by Dr. P.A. Theodos at the Barton Memorial Hospital, 121 South Broad Street, Philadelphia, Pennsylvania. Approximately one weeks hospitalization per patient would be necessary for the studies which would include:

1. A complete medical and industrial history, physical examination, and routine laboratory studies including x-rays of the chest and electrocardiograms.
2. Complete pulmonary function studies including measurements of the ventilation, degree of emphysema and the respiratory gas exchange.
3. Cardiac catheterization to determine the pressure in the pulmonary circulation and to correlate these with the clinical features and the pulmonary function studies.
4. Lung biopsy under local anesthesia in selected cases to correlate the pathological features with the clinical and laboratory findings.

It is indicated that the hospital charges would approximate \$300. per patient. The cost to the member company would, of course, include the additional expenses of transportation, wage loss, etc. A Group Hospitalization plan might absorb a portion of the costs.

Report of all medical data for each patient would be forwarded to the company physician and to the family physician, if desired. Following a series of studies, Dr. Theodos would summarize and report his findings to the Institute membership.

This type of investigation is of considerable value to each participating member and to the Institute as a whole. The results of the study of the patient would indicate objectively the evaluation of cause and extent of disability. Since the usual case sent for this examination would be a current or potential workmen's compensation occupational disease claim, this report would assist in determining the validity of the claim and the extent of the disability and therefore, the liability.

2. Autopsy Study.

The pathological and analytical studies of autopsy specimens would be made by Dr. G. W. H. Schepers, Saranac Laboratory, Saranac, New York. The study consists of reports of the pathology, the petrographic analysis and tissue ashing.

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Autopsy specimens would be obtained and forwarded by the plant physician. Details of the medical routines, the employment and medical histories, and specimen preparation were given each doctor at the October, 1954 meeting.

Report of the study would be sent to the plant physician, with additional copies for the pathologist performing the autopsy and the family doctor as desired. The cost of the complete study approximates \$200. - \$250.

This type of investigation, too, is of considerable value to the participating company and to the entire Institute. The individual reports will establish, in a manner not possible by x-ray and clinical diagnosis, the nature and extent of the disease process. This will have important bearing on Workmen's Compensation liability for a particular case.

After a series of case studies, Dr. Schepers will summarize and report to the Institute membership his findings and observations. While animal experimentation has contributed greatly, the autopsy studies can develop even more complete knowledge of the disease process; which in turn can lead to more effective medical and exposure control.

Industry participation in these programs would insure advance in Medical Knowledge regarding Asbestosis. Since the cases in any one company are so few, the cumulative industry experience is necessary to provide a large enough sample to produce valid data.

The cost for each member is nominal and immediate value is obtained through the case reports which provide a basis for equitable settlement of Workmen's Compensation claims.

While the Board of Governors has approved these programs in principle, we desire to have a direct indication from each member company as to whether they will participate in them. It is understood that such might require clarification or modification of some management policies.

Would you kindly review the above proposals and indicate the intent of your company regarding them.

Should general participation be agreed to, complete details, procedures, addresses, etc. will be forwarded each member for distribution to appropriate company personnel.

H. M. Jackson, Chairman
Air Hygiene Committee

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TABLE I

Electrical Asbestos Tapes

Thickness (In.)	Width	Total Ends	Picks/In.	Average Yds.* Per Pound	Minimum Pounds Tensile Strength Per In. Width
0.010	1/2	17	17	140.0	20
	3/4	25		97.0	
	1	31		74.0	
	1-1/4	37		61.0	
	1-1/2	43		51.8	
	1-3/4	50		44.6	
	2	57		39.1	
0.015	1/2	18	15	92.0	35
	3/4	25		66.3	
	1	31		51.2	
	1-1/4	37		42.0	
	1-1/2	43		36.0	
	1-3/4	50		33.0	
	2	57		28.0	
0.020	1/2	16	13	74.8	40
	3/4	22		53.3	
	1	28		41.1	
	1-1/4	34		33.5	
	1-1/2	40		28.3	
	1-3/4	46		24.5	
	2	52		21.6	
0.025	1/2	18	12	56.3	50
	3/4	25		39.8	
	1	32		30.8	
	1-1/4	39		25.0	
	1-1/2	46		21.0	
	1-3/4	53		18.3	
	2	60		16.2	
0.030	1/2	17	11	44.7	70
	3/4	25		30.3	
	1	33		22.9	
	1-1/4	40		18.8	
	1-1/2	47		15.9	
	1-3/4	55		13.6	
	2	62		12.0	

TABLE II

Industrial Asbestos Tapes

Thickness, In.	Total Ends per Inch	Picks Per Inch	Aver. Ft. Per Pound*
1/32	28	11	65
1/16	18	8	36
1/8	34	12	17
3/16	33	12	11
1/4	45	18	8.5

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*NOTE: Final agreement could not be reached on how tolerances should be applied to these items. Some members preferred a $\pm 10\%$ tolerance applied to the average figure, while others preferred just a minimum of -10% applied with no maximum states. This question will be presented to the Sales Promotion Group for their advise as to which method they prefer.

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Proposed A.T.I. Standard Specifications
For Asbestos Braids for Electrical and
Industrial Purposes

1. General

These specifications apply to asbestos braids made from non-metallic asbestos yarns suitable for electrical or industrial purposes.

2. Sampling for Lot Acceptance Tests

The selection of samples to be tested to determine the acceptability of a lot shipment of asbestos braid shall be in accordance with the following schedule:

Packages in Shipment	Packages for Testing	Yardage per Package for Each Test	
		Minimum	Maximum
2 to 5	2	1 yd	2 yd
6 to 12	3	1 yd	2 yd
13 to 50	5	1 yd	2 yd
51 or more	8	1 yd	2 yd

3. Specifications

The average values for all braids tested shall meet the requirements established by the Asbestos Textile Institute as shown in Table I, with tolerances given in section 4.

Table I

ATI Style	Inside . Diameter, In.	Wall Thick- ness, In.	Picks per In.	Specified Ft per lb	Ends per Carrier
.5B1	1/64	1/32	9.8	240	
2B1	1/16		12.5	200	
3B1	3/32		9.3	184	
4B1	1/8		10.5	128	
5B1	5/32		10.3	129	
6B1	3/16		10.2	125	
7B1	7/32		8.8	105	
8B1	1/4		8.6	90	
9B1	9/32		8.4	84	
10B1	5/16		8.3	76	
12B1	3/8		8.0	77	
12B1	3/8		8.0	33	2
14B1	7/16		7.6	77	1
14B1	7/16		7.6	35	2
16B1	1/2		7.3	74	1
16B1	1/2		7.3	37	2

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ATI Style	Inside Diameter, In.	Wall Thick- ness, In.	Picks per In.	Specified Ft per lb	Ends per Carrier
.5B2	1/64	1/16	11.0	175	
1B2	1/32		9.5	98	
2B2	1/16		9.0	100	
3B2	3/32		9.3	77	
4B2	1/8		9.2	72	
5B2	5/32		9.1	68	
6B2	3/16		8.5	55	
8B2	1/4		9.0	48	
9B2	9/32		8.4	42	
10B2	5/16		8.2	43	
12B2	3/8		7.0	24	
14B2	7/16		7.6	26	
16B2	1/2		7.0	20	
18B2	9/16		6.75	18	
20B2	5/8		6.34	16	
24B2	3/4		5.84	14.1	
28B2	7/8		5.2	11.2	
30B2	15/16		5.5	10.0	
32B2	1		5.6	9.9	
36B2	1-1/8		5.16	9.85	2
36B2	1-1/8		5.20	8.5	3
40B2	1-1/4		5.0	9.6	2
40B2	1-1/4		4.8	7.0	3
44B2	1-3/8		4.77	8.67	2
44B2	1-3/8		4.5	6.8	3
48B2	1-1/2		5.0	8.33	2
48B2	1-1/2		4.3	5.8	3
56B2	1-3/4		4.3	7.1	
64B2	2		3.8	4.4	
80B2	2-1/2		3.3	3.81	
16B3	1/2	3/32	7.3	15.7	
18B3	9/16		7.0	14.3	
28B3	7/8		4.3	8.8	
32B3	1		5.4	8.3	
48B3	1-1/2		4.3	4.5	
64B3	2		3.8	3.7	
72B3	2-1/4		3.6	3.5	
80B3	2-1/2		3.3	3.2	
20B4	5/8	1/8	6.7	11.0	
24B4	3/4		6.2	10.0	
28B4	7/8		5.7	7.6	2
28B4	7/8		5.0	7.0	3
32B4	1		5.1	7.45	2
32B4	1		5.25	6.7	3
40B4	1-1/4		5.2	6.6	2
40B4	1-1/4		4.5	7.0	3
44B4	1-3/8		5.0	6.7	2
44B4	1-3/8		4.9	4.6	3
48B4	1-1/2		4.3	8.4	2 and 3
48B4	1-1/2		4.35	5.0	3

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ATI Style	Inside Diameter, In.	Wall Thick- ness, In.	Picks per In.	Specified Ft per lb	Ends per Carrier
64B4	2	1/8	3.9	4.5	2 and 3
64B4	2		4.2	3.3	4
72B4	2-1/4		3.4	4.85	3
72B4	2-1/4		3.7	3.1	4
80B4	2-1/2		3.15	3.2	4

4. Tolerances

(a) Inside Diameter - the inside diameter of the braid shall not vary more than:

<u>Specified Inside Diameter</u>	
1/32 in. and less	minus 0, plus 1/64 in.
Over 1/32 in. to and including 1/8 in.	minus 0, plus 1/32 in.
Over 1/8 in.	minus 0, plus 1/16 in.

(b) Wall Thickness - the wall thickness shall not vary from nominal more than:

<u>Nominal Wall Thickness</u>	
1/64 in.	minus 0 in., plus 1/64 in.
1/32 in.	minus 0 in., plus 1/32 in.
1/16 in.	minus 0 in., plus 1/32 in.

(c) Construction - the number of picks or plaits per in. shall not vary from standards specified in Table 1 more than 10 per cent. Not less than three determinations shall be made per shipment.

The ends per carrier shall conform to that specified in Table 1.

(d) Weight - the feet per lb of each style of braid shall not vary more than ± 10 per cent from that specified in Table 1.

(e) Asbestos Content

Asbestos braids shall be made from standard yarns of the type required for the grade and style of braid specified.

Commercial grade	- asbestos content - 75% up to but not including 80%
*Underwriters'	" - asbestos content - 80% up to but not including 85%
A	" - asbestos content - 85% up to but not including 90%
AA	" - asbestos content - 90% up to but not including 95%
AAA	" - asbestos content - 95% up to but not including 99%
AAAA	" - asbestos content - 99% up to and including 100%

*NOTE - asbestos braid for electrical purposes shall be, unless otherwise requested, Underwriters' grade.

(f) Imperfections

All knots and imperfections are objectional and shall be held to a minimum.

5. Method of Testing

All testing shall be in accordance with that specified in "Standard Specifications and Methods of Test for Asbestos Products by ASTM" unless otherwise stated:

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Inside Diameter (ASTM-D354-41)

(a) The inside diameter of the braid shall be determined by the use of a mandrel, having a hemispherical end. A sample of braid approximately 1-1/4 yard in length shall be slipped over the mandrel and if of the proper size, shall fit smoothly and snugly after application and show no undue disturbance of the construction due to forcing the sample onto the mandrel.

(b) Maximum of 2 yards and minimum of 1 yard to be tested from those packages specified for testing (refer to: 2. Sampling for Lot Acceptance Tests).

Wall Thickness

(a) The thickness of the wall shall be determined by inserting a mandrel of the nominal inside diameter of the braid and measuring the outside diameter. Such measurements shall be in accordance with Method B of the Standard Methods of Test for Thickness of Solid Electrical Insulations as stated in D 374-42, except that the micrometer is to have an anvil and pressure foot 1/2 in. in diameter instead of 1/4 in. By subtracting the mandrel diameter from the outside diameter and dividing the difference by two, the wall thickness is determined.

(b) At least ten measurements of wall thickness shall be made on samples used for weight determination.

Weight, feet per pound

(a) Lay braid on a flat surface, smooth out (lightly) the wrinkles, do not stretch or distort shape of braid. Measure, increments of 36 in., weigh, and compute feet per pound of braid.

Asbestos Content

Procedure to be identical to that described in ASTM D-315-52, Asbestos Tapes for Electrical Purposes.

Carriers (ASTM D-354-41)

(a) The number of carriers shall be determined by cutting the sample at right angles to the axis of the braid and counting the total number of ends and dividing by the average number of ends per bobbin.

(b) Determination of the number of carriers shall be made on the samples used for making weight measurements.

Ends on Bobbin (ASTM D-354-41)

The ends on the bobbin are the "number of ends up" in each plait (web or tape). Determination of the ends on bobbin shall be made at the time the carrier determinations are made.

Yarn "Cut"

(a) In determining yarn "cut", a yarn balance or similar device shall be used. It will be necessary to carefully ravel the individual ends from the braid and from these the "cut" is calculated.

(b) Yarn "cut" shall be determined on the samples used for the weight determination.

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Imperfections

The number of knots or imperfections shall be determined on any lot by a visual examination.

Referee Conditions

In case of dispute, tests shall be made under standard conditions as defined in Section 2 (b) of the Standard Methods of Testing Woven Fabrics (ASTM-39).

(a) Standard Condition - Standard condition of fabrics shall be that reached by fabric when in moisture equilibrium with a standard atmosphere having a relative humidity of 65 per cent at 70F (21C). A tolerance of ± 2 per cent is permitted in relative humidity and $\pm 2F$ (1.1C) in temperature.

(b) Moisture Equilibrium - It shall be considered that moisture equilibrium is reached when, after free exposure to air in motion, there is no progressive increase in weight. Moisture equilibrium shall be approached from the dry side (not moisture free).

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INDUSTRIAL ASBESTOS TAPES

Scope

1. These specifications and methods of test apply to asbestos tape 1/32" in thickness and over, woven from plain asbestos yarn.

SPECIFICATIONS

Weave

2. The tape shall be uniformly woven and shall have woven selvage edges.

Workmanship

3. The workmanship shall be first class as shown by even spacing in the weave, freedom from nap and from broken threads, uneven threads, and knots.

Grade

4. The grade of the asbestos tape shall be determined by the percentage of asbestos by weight and shall conform to the following requirements.

<u>Grade</u>	<u>Asbestos content, percent</u>
Commercial	75 to 80 excl.
Underwriters	80 to 85 excl.
A	85 to 90 excl.
AA	90 to 95 excl.
AAA	95 to 99 excl.
AAAA	99 to 100 incl.

Physical Properties

5. The physical properties of asbestos tapes in thickness of 1/32" to 1/4" shall conform to the requirements presented in Table I subject to the tolerances specified in Section 7 through 11.

TABLE I
PHYSICAL PROPERTIES OF ASBESTOS TAPES

	<u>Thickness</u>				
	<u>1/32"</u>	<u>1/16"</u>	<u>1/8"</u>	<u>3/16"</u>	<u>1/4"</u>
Warp Ends per in. (including binder)	28	18	34	33	45
Picks per inch	11	8	12	12	18
Feet per lb. of 1" tape, average	60	40	16	12	8

Rolls

6. Standard rolls shall each contain 25 to 100 feet of tape and at least 75% of the rolls in any shipment shall be in continuous lengths. No roll shall consist of more than two pieces. A roll consisting of two pieces shall be properly marked to indicate the location of the break.

The outer end of the tape shall be firmly secured.

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TOLERANCES

Width

7. The width of the tape shall not vary from that specified by more than the following:

For 1/32" and 1/16" thickness

<u>Specified Width</u>	<u>Permissible Variation</u>
1 inch and under	$\pm 1/32"$
Over 1 inch	$\pm 1/16"$

For 1/8", 3/16", and 1/4" thickness

All widths	$\pm 1/16"$
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Thickness

8. The thickness of the tape shall not vary from that specified by more than the following:

<u>Specified Thickness</u>	<u>Permissible Variation</u>
1/32"	$\pm .003"$
1/16"	$\pm .005"$
1/8"	$+ .010, - .005"$
3/16"	$+ .010, - .005"$
1/4"	$+ .010, - .005"$

Construction

9. The number of picks per inch shall not vary from that specified by more than the following:

<u>Tape</u>	<u>Permissible Variation</u>
1/32 and 1/16" in thickness	± 1
1/8, 3/16 and 1/4" in thickness	± 2

The number of warp ends per inch (including binder) shall not vary from that specified by more than ± 2 for all thicknesses.

Weight

10. The weight shall not vary from that specified by more than plus or minus 10 per cent.

Grade

11. The asbestos content prescribed for the particular grade shall not vary from that specified in Section 4.

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METHODS OF TESTING

Sampling roll for test.

12. Each shipment of tape shall be sampled according to the following:

<u>No. of rolls in lot</u>	<u>No. of sample rolls</u>
50 and under	3
51 to 100	5
101 to 250	7
251 and over	10

The prescribed tests shall be made on lengths from each roll. Failure of the first samples selected to conform to the requirements of the specifications will necessitate the selection of the same number of rolls for a second test. The averages from all rolls tested shall determine the conformance of the lot to the specification.

Test Conditions

13. All test specimens shall be conditioned to moisture equilibrium in a standard atmosphere having a relative humidity of 50 per cent at 70°F. A tolerance of plus or minus 2% is permitted in relative humidity and plus or minus 2°F. in temperature.

Note:-For purpose of tests, it is recognized that specimens reach moisture equilibrium after exposure for at least 4 hr. at the above specified relative humidity and temperature.

Width

14. (a) The width shall be determined by the use of a standard steel scale so graduated as to obtain the degree of accuracy specified in Section 7. The determination shall be made while the tape lies flat and without tension on a smooth surface.

(b) The width shall be taken as the average of five measurements made at least 1 foot apart in any one roll, and the average of the five measurements shall be accepted as the width of the lot under test.

Thickness

15. (a) The thickness shall be measured in accordance with Section 5 of the Standard General Methods of Testing Woven Fabrics (ASTM Designation D 39).

(b) The thickness shall be taken as the average of ten measurements at ten different places on the sample approximately 12" apart, none of which shall be on a selvage edge.

Weight

16. The weight of the tape shall be determined by accurately measuring a sample not less than 1 yard in length and weighing it on a balance sensitive to 0.5% of the weight of the specimen. The length determination shall be made with the material laid flat on a smooth surface and held taut without stretching.

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Construction

17. (a) Ends. The total number of ends shall be counted on tapes up to and including 1-1/2" in width. The ends over a 1" width shall be counted on tapes over 1-1/2" in width and shall not include selvage yarns.
- (b) Picks. The number of picks per inch shall be determined over a length of 3 inches.
- (c) Number of tests. The number of ends shall be that found by one determination per sample when all warp yarns are counted (1-1/2" and under) and three determinations per sample when the warp yarns in a 1" width are counted (over 1-1/2").

The number of picks per inch shall be the average of single determinations at each of 5 different places on the sample. An accepted thread counting magnifying glass shall be used in working the determination.

Tensile Strength

18. (a) The tensile strength of the tape shall be determined on a testing machine conforming to the Standard Specifications for Textile Testing Machines (ASTM Designation: D76).
- (b) Tests shall be made in the direction of the warp only. Tapes up to and including 1-1/2" in width shall be tested in full width. Tapes over 1-1/2" in width shall be tested by the grab method in accordance with Section 10 of Standard General Methods of Testing Woven Fabrics (ASTM Designation: D 39). The initial length of the test specimen between the clamps shall be 3" and the speed of the pulling clamp shall be 12 ± 1/2" per Min.
- (c) Tensile Strength After Heating. When required, the tensile strength after heating shall be determined on specimens which have been heated in accordance with Standard Methods of Heat Aging Asbestos Textiles as specified by ASTM.
- (d) Number of Tests. The tensile strength before and after heat aging shall be determined on five specimens from each roll. The average tensile strength of the five specimens shall be the tensile strength of the roll.

Asbestos Content

19. One test specimen weighing not less than 5 grams shall be taken from each sample roll and the asbestos content determined in accordance with the method of test for Asbestos Content of Asbestos Textile Materials (ASTM Designation _____). The average of the determinations shall be the asbestos content of the lot.

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Visit to Oak Ridge

March 3-5, 1958

Persons visited: C. P. Keim, Technical Information Division, O. Sisman and W. W. Parkinson, Solid State Section of Engineering Materials, H. Blauer, Radio Isotopes Service, T. Mullins, Activation Analysis Laboratory, and P. E. Pasell and H. E. Voress, Technical Information Services Extension. The Division of Licensing and Regulation has recently been moved to Washington so could not be visited.

Dr. Keim, Director of the Technical Information Division served as a coordinator in arranging my visits with the persons in the various sections of the laboratory.

A considerable amount of time was spent with Dr. Sisman who has carried out some investigations on the effect of radiation on asbestos and is the senior author of report ONRL-928 "Physical Properties of Irradiated Plastics", which includes asbestos-reinforced plastics. The samples previously tested were discs 3/4-inches in diameter which we supplied through Dr. McVey. During irradiation the discs were separated by aluminum spacers and immersed in water. Although the samples were not in the best condition for study after irradiation, there was definite indications that the chrysotile crystal structure had been affected by the irradiation from changes in the x-ray diagram and the index of refraction. Also it appears that the "water of crystallization" comes off the irradiated asbestos at a lower temperature than in regular asbestos. The fiber was too short for tensile strength measurements.

Dr. Sisman stated that it was the policy of the laboratory to conduct tests on a class of materials deemed of sufficient importance to warrant the investigation. Asbestos is in this category and they were already planning to conduct further tests on asbestos as soon as the new research reactor is in operation. They had samples of crude in which fibers were about 1/4-inch long to be irradiated.

Dr. Sisman was told of the various types of asbestos, and the locations in which it is found. An ATI "Handbook of Asbestos Textiles" was given Dr. Sisman as was a reference to the book "Asbestos" by Carroll-porizynski, for further information. The interest of the ATI in determining the effect of radiation on asbestos was reported. This was reported as the type of organization with which their laboratory prefers to work and their full cooperation was promised.

Dr. Sisman stated that this investigation would be conducted on an informal basis, but if the program became too extensive a formal program between the ORNL and the ATI might be desired. This would be for the government records only.

The extent of the program was discussed. Dr. Sisman stated they were currently looking for materials that will withstand 1500°F, for gas cooled reactors, and later the temperature limit might be increased.

It was therefore felt the investigation on asbestos should include the different types, chrysotile, crocidolite, amosite, and anthophyllite, samples of which I would supply, either from my samples or from other members of the Institute. The samples of chrysotile would be in long crudes permitting tensile strength measurements. The various properties to be investigated would include crystal structure by x-ray diffraction, petrographic studies, loss of "water of crystallization", specific heat, tensile strength, and possibly thermal conductivity.

This work would be done after the new research reactor is in operation, scheduled for this summer, and should be completed in about one year.

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Dr. Sisman was asked about the type of tests to determine or prove the suitability of an asbestos material, as a gasket, for use in nuclear reactors. He stated all his studies dealt with changes in regularly measured physical properties as hardness, tensile, flexibility, compression, etc. using ASTM procedures.

Through previous contacts it had been learned the information most desired by manufacturers of nuclear reactors is the radiations induced when asbestos is subjected to nuclear radiation, either from its components or impurities. Mr. Leddicotte head of the Activation Analysis section was out of town but this problem was discussed with Mr. Mullins. Although this is not their usual type of analysis, they were in a position to radiate asbestos, then measure in a scintillation spectrophotometer at various times the radiations induced as well as the overall activity. The exact cost of these measurements will have to be obtained from Mr. Leddicotte, but it should be less than \$200 per sample.

A spectroscopic analysis of the asbestos should also be made.

The handling of materials to be irradiated was discussed with Mr. Blauer of the Radio Isotopes Service. The first requirement is that the company have a license for having radioactive materials, after which the radiation is handled by a regular purchase order. The material to be irradiated is packed in aluminum cans by the customer and sent to the laboratory to be radiated after which it is returned. The size of the can will depend on the reactor in which the material is to be irradiated. Their high flux reactor space available to outside companies is limited to cans $3/8 \times 1-3/4$ inches. It appears advisable to have any irradiation done at another facility as Brookhaven. Obviously a license must be obtained before any radioactive material can be shipped to us.

The services available through the Technical Information Services Extension were discussed with Messrs. Pasell and Voress. There are three classes of reports, declassified, confidential and secret. Declassified reports are obtained through the offices of Technical Services, Washington, while confidential and secret reports are available only through TISE, Oak Ridge. Abstracts of declassified material are published in Nuclear Science abstracts, while abstracts of confidential and secret reports are published in Confidential Reports for Civilian Application and Secret Reports for Civilian Application, available on subscription to organizations with proper access permits and facility clearance, that is, acceptable facilities for storing classified information.

A service of the TISE is literature searches through their card index. The charge is \$6.00 per hour and a literature search on asbestos would require from 3 to 5 hours and would cover all documents for the clearance held. Declassified reports are on file at many depository libraries, while confidential and secret reports at limited places.

Only a limited time was available for a literature search. A few pertinent reports were noted, one of which was classed confidential.

Time permitted a brief tour around the laboratory and to the reactors, but only the high spots could be covered.

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ASBESTOS TEXTILE INSTITUTE
TREASURER'S REPORT
March 10, 1958

ATI-106

Balance in Various Funds - December 2, 1957

Fellowship Fund	\$ 9,441.65	
General Fund	607.54	
Petty Cash Fund	<u>76.00</u>	\$ 10,125.19

Receipts

Assessments:		
General Fund	\$ 1,500.00	
Fellowship Fund	<u>1,500.00</u>	\$ 3,000.00

Transfers

To General Fund from Fellowship Fund	\$ 1,000.00	
To Petty Cash from General Fund	165.81	\$ <u>1,165.81</u>
		\$ 11,291.00

Disbursements:

Fellowship Fund

Fellowship Salary	\$ 2,436.63	
Lab. Expense	26.00	
Transfer to General Fund	<u>1,000.00</u>	\$ 3,462.63

General Fund

Secretary's Salary	\$ 762.63	
Secretary's Travel	48.50	
Meeting Expense	449.80	
Legal Expense	1,027.85	
Auditing Expense	6.00	
Stenographic Expense	135.00	
Visual Aid Expense	41.03	
New Exhibit Expense	75.25	
Misc. Office Expense	120.90	
Petty Cash Transfer (Misc. Off.)	<u>165.81</u>	\$ 2,832.77

Petty Cash Fund

Misc. Office Expense (General)	\$ 47.46	
Lab. Expense (Fellowship)	25.37	
Lab. Assistance (Fellowship)	<u>97.50</u>	\$ 170.33 \$ <u>5,465.73</u>

Balance on Hand - March 10, 1958: \$ 7,825.27

Balance in Various Funds - March 7, 1958:

Fellowship Fund	\$ 7,356.15	
General Fund	397.64	
Petty Cash Fund	<u>71.48</u>	\$ 7,825.27

Respectfully submitted,

T. C. McCluskey, Treasurer

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MS 004370

Mr. T. C. McCluskey, Treasurer
Asbestos Textile Institute

Dear Mr. McCluskey:

In compliance with your request, examination was made of the books and records of the Asbestos Textile Institute under Dr. M. C. Shaw's supervision on Monday, March 10, 1958. The audit covers the period from December 2, 1957 to March 10, 1958, inclusive.

The Balance Sheet of the Asbestos Textile Institute at March 10, 1958 is set forth below:

ASSETS

Total Cash in Bank (Schedule A)	\$ 7,753.79
Total Cash on Hand	71.48
Postage on Hand	2.54
* Furniture and Equipment (nominal value)	1.00
	<u>\$ 7,828.81</u>

LIABILITIES

Philadelphia Wage Tax	\$ 32.88
Net Worth	7,795.93
	<u>\$ 7,828.81</u>

* Other Asset items not included in above classification are shown in Schedule B.

The latest statement received from the depository (Chase-Manhattan Bank of New York) in which all funds of the Institute are kept, shows a balance of \$8,674.56 on February 28, 1958. The Petty Cash Fund totalling \$100.00 includes \$71.48 in cash and \$28.52 in vouchers. This fund was verified by actual count.

Schedule A: Showing a reconciliation of the Bank Balance at March 10, 1958:

Bank Balance per Latest Statement, February 28, 1958	\$ 8,674.56
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Less: Checks Drawn Subsequent to February 28, 1958:

<u>Check No.</u>	<u>Date</u>	<u>Payee</u>	<u>Amount</u>	
1297	2/27/58	First Pennsylvania Company	\$ 206.38	
1298	3/3/58	Petty Cash	84.61	
1299	2/28/58	Art Guild of Philadelphia	75.25	
1300	3/4/58	A. Pomerantz & Co.	26.68	
1301	3/4/58	Cadwalader, Wickersham & Taft	527.85	920.77

BALANCE ON HAND IN BANK, MARCH 10, 1958	\$ 7,753.79
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Checks numbered 1268 to 1273 inclusive, outstanding at the last audit, were examined and found to be in order. Bank deposits during this period under audit totalled \$3,000.00; \$1,500.00 was credited to the Fellowship Fund and \$1,500.00 credited to the General Fund.

A reimbursement transfer in the amount of \$165.81 was made from the General Fund to the Petty Cash Fund. Also a transfer of \$1,000.00 was made from the Fellowship Fund to the General Fund.

The authorization for this \$1,000.00 transfer from the Fellowship Fund to the General Fund could not be found in the Minute Book. It is recommended that this transfer be minuted at the next general meeting.

Schedule B: Other Assets of Asbestos Textile Institute:

<u>Item</u>	<u>Quantity</u>	<u>Description</u>	<u>Date Acquired</u>	<u>Purchase Cost</u>
(a)	7	Visual Aid Display Cases	January 1950	\$ 3,414.32
(b)	1	Suter Tensile Tester	August 1947	726.00
(c)	1	Heat Aging Furnace	April 1951	849.98
(d)	1	Bausch & Lomb Micro-Projector	May 1954	94.00
(e)	1	Brabender Moisture Tester	September 1954	765.00
(f)	1	Federal Thickness Gage	January 1947	50.00
(g)	1	Mapes Magnetic Analyzer	April 1953	100.00
(h)	1	Scott Twist Tester	December 1947	126.00
(j)		Office Furniture & Equipment	September 1954	757.50
(k)	1	Temco Muffleoven & Control	October 1954	161.00
(l)	1	Cenco Balance	October 1954	32.25
(m)	1	Electric Stopclock	October 1954	50.00
(n)	1	Abradoflex	January 1956	1,175.00
(o)	1	Exhibit - 4 Sections	March 1957	<u>5,000.00</u>
				\$ <u>13,302.05</u>

Very truly yours,

S. C. Gehman, Auditor

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MINUTES of the Meeting of the
Board of Governors of the
Asbestos Textile Institute
held March 13, 1958 in
Philadelphia, Pa.

IN ATTENDANCE:

J. A. Bettes, President
RAYBESTOS-MANHATTAN, INC.

AMERICAN ASBESTOS TEXTILE CORP.
A. J. Scanlan

TALLMAN-McCLUSKEY FABRICS CO.
T. C. McCluskey

JOHNS-MANVILLE CORP.
W. S. Hough
C. C. Simoni

CADWALADER, WICKERSHAM & TAFT
M. I. Ruddock

KEASBEY & MATTISON CO.
D. W. Widmayer

ASBESTOS TEXTILE INSTITUTE
M. C. Shaw

SOUTHERN ASBESTOS CO.
J. T. Griffis

1. The meeting was called to order by President Bettes and the first segment was devoted to committee reports.

The first report was presented by Mr. J. A. Brown, Chairman of the Sales Promotion Committee and the activities of this committee in meeting earlier on this date were reviewed. Mr. Brown also discussed the conclusions obtained as a result of a joint meeting of members of the Sales Promotion and Technical Committees regarding the "Seal of Quality" program. The complete report as presented by Mr. Brown at the General meeting is appended as a part of the minutes of that meeting.

The next report was presented by Mr. A. E. May, Chairman of the Air Hygiene and Manufacturing Committee. This committee in meeting earlier on this date had representation by all except one member company and during the course of the day-long session considered many subjects and problems related to the fields of interest encompassed by this group.

As a part of this committee's report, it was stated that this committee was anxious to have the Fiber Evaluation Committee activated in order that fiber evaluation data of interest to this group might be made available. A recommendation to this effect was presented to the Board of Governors for consideration. As a result of this recommendation it was moved by Mr. Widmayer, seconded by Mr. McCluskey and unanimously agreed that, "A Fiber Evaluation Committee be established, the personnel of which will be appointed by President Bettes, for the purpose of investigating and determining the best methods and techniques by means of which fiber length gradations in a given lot of fibers may be determined". It is hoped that the asbestos miners will participate in these endeavors.

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The final committee report was presented jointly by Edward Beale, Chairman of the Technical Committee and Dr. M. S. Maier who is serving this committee as chairman of the task group concerned with nuclear radiation studies on asbestos. The Technical Committee in meeting earlier on this date considered many problems connected with projects of current interest to this group. A full report covering these discussions was presented at this time and a copy of the remarks as presented at the General meeting are appended to the Minutes of that meeting. In addition to the remarks by Mr. Beale, Dr. M. S. Maier discussed his activities and progress that has been made in his assigned project related to studies designed to determine the effects of nuclear radiation and attack upon asbestos and asbestos textiles. Dr. Maier recently visited the Oak Ridge Laboratories and reported upon his findings at that establishment. The full report by Dr. Maier is attached as a part of the Technical Committee report.

2. Upon conclusion of the committee reports the formal segment of the meeting was begun. President Bettes presented the minutes of the last meeting for reading, however, since all members had received copies and were familiar with the actions there taken, it was moved by Mr. D. W. Widmayer, seconded by Mr. J. T. Griffis and unanimously agreed that the minutes be accepted as presented.
3. The Treasurer's Report was presented by Mr. T. C. McCluskey, Treasurer, and following a discussion of the report, it was moved by Mr. Widmayer, seconded by Mr. Hough and unanimously agreed that the report be accepted and recommended for approval at the General meeting.

In the report of the auditor covering the Treasurer's Report, it is noted that in accordance with oral instructions received at the December meeting, a sum of \$1,000.00 was transferred from the Fellowship Fund to the General Fund. The auditor requested that this transfer be authorized through recorded action taken at this meeting. Therefore, it was moved by Mr. Griffis, seconded by Mr. Widmayer and unanimously agreed that the \$1,000.00 transfer from the Fellowship Fund to the General Fund, affected during the first quarter of 1958, be here authorized.

4. The next subject introduced for consideration concerned current applications for membership.

a. The invitation extended to E. R. I. C. A., Barcelona, Spain has not to date been acknowledged and this membership is therefore still pending.

b. The application presented by Israel Brake Lining Manufacturers at the last meeting was investigated during the past quarter by the President of the Institute and other informed members to determine whether or not the manufacturing operations of the applicant entitled them to membership. It was found that this company does comply with the requirements for membership and it was moved by Mr. Hough and seconded by Mr. Bettes that an invitation be extended to Israel Brake Lining Manufacturers to join the Asbestos Textile Institute as an Associate Member. The vote on this motion showed four votes of approval, one vote negative and one vote in abstention. The motion was carried.

c. During the past quarter Mr. Herbert E. Sunbury, Manager of the Asbestos Department, U. S. Rubber Company, expressed an interest in the

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Asbestos Textile Institute and indicated the possibility that perhaps that company might wish to join the association. Correspondence with this company was exchanged during recent weeks, however, there has been no positive action taken in this regard to date.

5. The meeting was next opened for the discussion of subjects under new business, however since there were no such matters for consideration at this time, it was moved by Mr. Widmayer, seconded by Mr. Griffis and unanimously agreed that the meeting be adjourned.

Myril C. Shaw,
Secretary

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ROSTER
ASBESTOS TEXTILE INSTITUTE

MEMBER COMPANIES

AMERICAN ASBESTOS TEXTILE CORP.
Norristown, Pa.
JOHNS-MANVILLE CORPORATION
New York 16, N. Y.
KEASBEY & MATTHEWSON COMPANY
Ambler, Pa.
RAYBESTOS-MANHATTAN, INC.
Manheim, Pa.
SOUTHERN ASBESTOS COMPANY
Charlotte 1, N. C.
TELLMAN-MCCLUSKEY FABRICS CO.
St. Louis, Mo.

ASSOCIATE MEMBERS

ASBESTOS CORPORATION, LTD.
Theftord Mines, Quebec, Canada
BELL ASBESTOS MINES LTD.
Theftord Mines, Quebec, Canada
BRITISH BELTING AND ASBESTOS, LTD.
Cleckheaton, Yorkshire, England
THE CAPE ASBESTOS COMPANY, LTD.
London, W.1, England
CASSIDAR ASBESTOS CORP., LTD.
Toronto, Canada
ENGLISH ASBESTOS COMPANY, LTD.
Bristol 4, England
JOHNSON'S COMPANY, LTD.
Theftord Mines, Quebec, Canada
SMALL & PARKES, LTD.
Manchester 9, England
SOCIETE ANONYME FRANCAISE DU FERODO
Paris, France

ASBESTOS
TEXTILE
INSTITUTE

GENERAL MEETING

Hotel Warwick
Philadelphia, Pa.
March 13-14, 1958

OFFICERS

President J. A. Bettes
 Vice President J. T. Griffiths
 Treasurer T. C. McCluskey
 Secretary M. C. Shaw

BOARD OF GOVERNORS

J. A. Bettes
 J. T. Griffiths
 W. S. Hough (C)
 D. W. Widmayer
 A. J. Scanlan
 R. S. Tallman

LEGAL COUNSEL

M. I. Ruddock
 Cadwalader, Wickersham & Taft

COMMITTEES

Sales Promotion:

J. A. Brown, Chair.
 A. R. Byrnes
 J. T. Griffiths
 G. J. Harris
 S. I. Harris
 W. S. Hough
 A. J. Scanlan
 E. A. Schuman
 A. E. Whitfield

Air Hygiene & Mfg.

A. E. May, Chair.
 H. M. Jackson
 B. W. Lutenberger
 T. C. McCluskey
 J. L. Mitchell
 R. B. Smith
 J. W. Weber

Technical:

Edw. Beale, Chair.
 E. C. Cutler
 M. S. Maier
 J. D. McCluer
 T. C. McCluskey
 M. W. Oliver
 D. F. Queally
 J. L. Tucker

Fiber:

J. A. D. Marcotte, Chair.
 J. D. Christian
 R. E. Cryor
 A. W. G. Gibb
 J. C. Kelleher
 F. Parker Smith

MEETING SCHEDULE

Thursday, March 13, 1958:

Technical Committee -- 9:30 A.M. -- 12:00 noon
 Room 321

Air Hygiene & Mfg. Committee -- 9:30 A.M. -- 5:00 P.M.
 Room 319

Sales Promotion Committee - 9:30 A.M. - 12:00 noon
 Secretary's Suite

Joint Meeting - Technical & Sales Promotion Comm.
 Room 321 -- 1:30 P.M. - 5:00 P.M.

Board of Governors - 6:00 P.M. - Secretary's Suite

Friday, March 14, 1958:

General Meeting -- 9:30 A.M. -- Colonial Room

Luncheon -- 12:30 P.M. -- Jr. Colonial Room

GENERAL MEETING AGENDA

Call to Order by the President -- 9:30 A.M.
 Minutes of Last Meeting
 Treasurer's Report
 Secretary's Report
 Legal Counsel Report
 Committee Reports:

Air Hygiene & Mfg. -- A. E. May
 Sales Promotion -- J. A. Brown, Jr.
 Technical -- Edw. Beale
 Fellowship Report -- M. C. Shaw

Old Business
 New Business

Minutes of the Asbestos Textile Institute Air Hygiene and Manufacturing Committee- March 13, 1958

In Attendance:

W. C. Atkinson
J. E. Cerny
H. M. Jackson
A. E. May
J. L. Mitchell
H. E. Palm
R. B. Smith
U. D. Torrance

Johns-Manville Corp.
Tallman-McCluskey Fabrics Co..
Johns-Manville Corp.
Keasbey & Mattison Co.
Southern Asbestos Corp.
Raybestos-Manhattan, Inc.
Raybestos-Manhattan, Inc.
Johns-Manville Corp.

The following items were discussed in a "Round Table" type atmosphere with all members participating:

1. Considerable discussion was given to the advisability of developing a standardized method of testing virgin fiber to determine dust content. It was learned that a committee consisting of members of the A.T.I. and Q.A.M.A. was proposed by President Bettes, but has never functioned. It is the recommendation of the Air Hygiene and Manufacturing Committee that the proposed group become active. If the Q.A.M.A. does not care to participate in the development of a test method, a committee should be selected from the membership of the Technical and Air Hygiene Committees.
2. The Epidemiological Study by the Industrial Hygiene Foundation, sponsored by the Q.A.M.A., has been completed and released to members of the Q.A.M.A., and will be published in the Archives of Industrial Medicine. After publication, this committee will discuss this report.
3. Mr. Mitchell mentioned that Southern Asbestos Corp. will hold an Open House for members of employees families in an effort to better acquaint the families with the present working conditions. Mr. Hugh Jackson reported that plant visits for local medical groups, and especially the chapters of the Industrial Medical Association, are well worth the effort because of the influence the groups have in the profession.
4. Mr. Mitchell reported that the Abington System, which consists of a centrally located vacuum pump and duct system, has been very satisfactory for card stripping, floor cleaning and frame cleaning. To realize the full potential of the system, special tools are required which have not been fully developed. Mr. Mitchell will discuss the system in more detail at the next meeting.
5. Mr. Hugh Jackson advised that on June 17, 18 and 19 a Symposium on Lung Diseases will be sponsored by the Q.A.M.A. and that he has been asked to present a discussion on "Disease Control in the Asbestos Textile Industry, Degree of Control Accomplished and Methods Used and Low Incidence". Mr. Jackson asked if it would be permissible to use data which has appeared in the committee minutes. Permission to do so was given by the committee and confirmed by the Board.
6. Mr. Torrance reported that various automatic stop mechanisms for spindle motions have been used with unsatisfactory results because of the fouling

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of the mechanism due to dust. Mr. May advised that his company had purchased new frames of foreign manufacture and that he would report on the operation of the stop mechanism.

7. The following items connected with dust control were discussed:

- a) Mr. Atkinson showed the September 1957 issue of "Fiber Magazine" in which a new type of card hooding system for use on cotton cards was described. Small hoods located at the points of dust emission is the main feature of the system.
- b) Mr. Palm advised that the Rushton Carroll Co. of Cambridge, Mass. made a small blower especially for waste end service on cards, and that a cyclone approximately 15" diam. has worked out very well on the waste end system.
- c) Mr. May reported that a small portable fan cyclone and dust collector, all mounted on a compact frame, has worked out very well for test purposes.
- d) Mr. Mitchell reported that the new loom hoods are working very well and the dust count in the weave room has been lowered. The new hoods completely enclose the upper part of the loom, and there are no bottom connections on the looms.
- e) The Johns-Manville Corp. is experimenting with spinning frame enclosures, but have not yet developed a satisfactory side piece. A door is placed for every four spindles.
- f) The Raybestos-Manhattan Plant at Charleston, S. C. reports that dust counts are taken at a specific location when requested by any factory employee. The results are filed for future reference.
- g) Brief discussions were held on the use of humidifiers and the oiling of stock.

NEXT MEETING AGENDA

1. Vacuum cleaning for dust control. The Abington System will be discussed in detail.
2. The Q.A.M.A. Report
3. Dust control throughout the plant.
4. Standard test for dust content in fiber.
5. Advantages and disadvantages of oiling stock.

MT-003785

Respectfully submitted,

A. E. May,
Chairman,

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MS 004379

MINUTES of the General Meeting
of the Asbestos Textile Institute
held March 14, 1958 in Phila.,
Pa.

IN ATTENDANCE:

J. A. Bettes, President
RAYBESTOS-MANHATTAN, INC.

AMERICAN ASBESTOS TEXTILE CORP.
M. Scanlan

JOHNS-MANVILLE CORP.
W. S. Hough
C. C. Simoni
V. Dann Torrance
W. C. Atkinson
E. A. Schuman
Edw. Beale

KEASBEY & MATTISON CO.
S. I. Harris
A. E. Whitfield
A. E. May
D. W. Widmayer
D. F. Queally

RAYBESTOS-MANHATTAN, INC.
R. B. Smith
M. S. Maier
J. A. Brown
M. W. Oliver

SOUTHERN ASBESTOS CO.
J. L. Mitchell
J. T. Griffis
G. J. Harris

TALLMAN-McCLUSKEY FABRICS CO.
T. C. McCluskey
John Cerny
A. R. Byrnes

ASBESTOS CORP. LTD.
Paul LeClerc
A. C. Steele

JOHNSON'S COMPANY LTD.
A. W. G. Gibb

BELL ASBESTOS MINES, LTD.
F. Parker Smith

THE CAPE ASBESTOS COMPANY, LTD.
R. E. Cryor

CADWALADER, WICKERSHAM & TAFT
M. I. Ruddock

ASBESTOS TEXTILE INSTITUTE
M. C. Shaw

1. The meeting was called to order by President Bettes and an address of welcome extended to all members present. At this time the President also recognized and welcomed two members from Johns-Manville Corp. who had not previously attended any of our meetings -- Mr. C. C. Simoni and Mr. V. Dann Torrance. Mr. Simoni, Vice President, Packings and Textiles Division, acknowledged the recognition and spoke briefly conveying his pleasure upon being invited to attend this meeting. Mr. Torrance, Manager of the Textile Mill, also acknowledged the recognition.
2. The Minutes of the last meeting were presented for reading however, since all members had received copies and were familiar with the transactions therein recorded, it was moved by Mr. Hough, seconded by Mr. Widmayer and unanimously approved that the Minutes be approved as circulated.
3. The Treasurer's Report was presented by Mr. T. C. McCluskey, Treasurer. Following a discussion of this report it was moved by Mr. Hough, seconded

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MS 004380

MT-003786

by Mr. Griffis and unanimously agreed that the report be accepted and be attached as a part of the minutes of this meeting.

4. The next presentation on this program consisted of an excellent report by our legal counsel, Mr. M. I. Ruddock on two recent decisions by the U. S. Supreme Court interpreting sections of the Robinson Patman Act. He also described the present Status of Senate Bill 11 which would amend the good faith meeting of competitive section of the Robinson-Patman Act.
5. The next segment of the meeting was devoted to Committee reports, presented by the Chairman of each of the active committees.

The first report was presented by Mr. A. E. May, Chairman of the Air Hygiene and Manufacturing Committee. This committee in session on March 13th considered a full agenda of subjects of interest to the group. The report as presented is attached as a part of the Minutes of this meeting. However, one matter which was presented and occasioned considerable discussion concerned the recommendation of this committee that the Fiber Evaluation Committee be activated and directed to undertake fiber evaluation studies that would provide some necessary data and information for this committee. It was generally agreed by the textile manufacturers present that such action should be pursued and some of the mining interests represented expressed a feeling that the miners might be interested in cooperating in such a program. Following a thorough discussion of the subject, President Bettes announced that the committee would be activated and that he would appoint members to serve on this committee at an early date.

6. The next committee report was presented by Mr. J. A. Brown, Chairman of the Sales Promotion Committee. This committee in meeting on March 13th pursued discussions concerned with a number of projects currently under consideration. At the last quarterly meeting of the Institute claims of the heat resistance qualities of a certain treated leather were advanced and it was shown as a result of investigation by the Fellow, that the claims were without foundation. In light of this, it was suggested by this committee that the Fellow take the necessary steps to bring these matters to the attention of both the advertising medium and the manufacturer. These actions were pursued and the results were gratifying in that the manufacturer admitted over-zealous advertising copy and the medium that carried the advertisement promised to prohibit this type of advertising of this material until proof of authenticity was developed. Since that time another attempt to verbally degrade the merits of asbestos has been undertaken by the International Nickel Company through an advertisement in Power, February, 1958. In this copy it states that "Flue gases.... up to 800°F..... were too hot for regular asbestos damper curtains....." It has been suggested that the Secretary correspond with this advertiser and point out the inherent fallacy of the above statement.

This committee has also been engaged during recent months in consideration of a "Seal of Quality" program and in joint meeting with the Technical Committee arrived at a mutually satisfactory program to be established as a "Seal of Membership" program. In inaugurating this program an effort will be made, through an accredited advertising agency to promote the significance of Asbestos Textile Institute membership as it represents product quality through research and development sponsored by the membership. The details of this program are set forth in the full report by Mr. Brown which is attached as a part of the Minutes of this meeting.

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The next committee report was presented by Mr. Edward Beale on behalf of the Technical Committee. This committee, in session on March 13, considered a wide variety of subjects under study by this group. Discussions covering the most recent revisions to the proposed standard specifications and lists for braid and industrial and electrical tapes were pursued and it was agreed that these three projects are now nearly completed and are ready for consideration by the Sales Promotion Committee preparatory to submission to the Institute for acceptance as industry standards.

Another subject discussed in the committee meeting concerned the proposed heat aging test and since there appears to be a lack of agreement as to the method of test as well as the method of reporting the results of such tests, the matter was referred back to the Fellow with instructions covering the possible revision of methods of reporting the data so procured.

The full report of the activities of this committee as reported by Mr. Beale is attached as a part of the Minutes of this meeting. Also attached as a part of this report is a report presented by Dr. M. S. Maier covering his recent trip to Oak Ridge, Tenn., where further information was sought regarding the adaptability of asbestos and asbestos textiles in the nuclear power plant field. The complete report by Dr. Maier is attached.

The final report was presented by Dr. Shaw covering the work of the Fellowship during the past quarter. Some results of continued elevated temperature serviceability studies are presented in the full report as attached to these minutes.

6. Under the matters of new business, it was announced that application for Associate Membership by Israel Brake Lining Manufacturers had been approved by the Board of Governors and that a proper invitation would now be extended that company.
7. There being no further business to be transacted at this meeting, it was moved by Mr. Widmayer, seconded by Mr. Hough and unanimously agreed that the meeting be adjourned.

Following the luncheon, Mr. Hough presented an Educational film entitled "Asbestos - A Matter of Time", issued by Johns-Manville Corporation on the occasion of their 100th anniversary. All of those who availed themselves of the opportunity to see this presentation saw one of the truly fine pictorial presentations covering our industry.

Myril C. Shaw,
Secretary

MT-003788

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MS 004382

Report of Sales Promotion Committee meeting held March 14, 1958, at the Warwick Hotel, Philadelphia, Pa.

Seal of Membership in the A.T.I.

After much investigation of the various possible ways in which membership in the Institute could be capitalized upon in the sale of asbestos textile products by members, it was decided that -

1. A seal should be used which proved membership in the Institute rather than one which attempted to certify the quality of the particular product.
2. In advertising or promoting this seal, it would be proper to state that the presence of the Seal of Institute Membership on a product indicates that the product was manufactured by a company which is a participating member of the Asbestos Textile Institute which has taken a leading roll in developing quality standards, conducting research and technical investigation to the performance characteristics of asbestos, and that the particular company has utilized the results of this research in the manufacture of its products.
3. Such a seal would not be a Seal of Quality of Approval which certified or guaranteed any particular quality of the products on which it appears. Such a seal could only be used if there was a testing procedure to check the quality certified.

It was the consensus of opinion of the Sales Promotion Committee with approval of Counsel that the above procedure would be followed.

As money has already been appropriated for the dissemination of information regarding the Seal of Membership, it was the Committee's opinion that Raybestos-Manhattan's advertising agency, Gray & Rogers should be contacted relative to a story to be disseminated to a selected list of business trade and newspapers, and that reprints of the story should be sent out by members of the Institute to their customers and prospects.

The cost of this program has been estimated to be \$500.00, said amount having already been appropriated for this purpose.

At the last meeting the matter of advertising of Insuleather by Jaxco, Inc. was called to the attention of the general meeting regarding the fact that the advertising in "Occupational Hazards" which indicated that Insuleather would stand cherry red heats was considered to be very questionable.

Dr. Myril Shaw obtained samples of Insuleather and ran tests and conclusively proved for his own satisfaction that Insuleather would not stand temperatures at cherry red which is considered to cover the range from 1650° to 1800°F. "Occupational Hazards" was so notified and we received a letter from Mr. Edwin M. Joseph, Vice President saying that he has written Jaxco, Inc. telling them they cannot run this particular advertisement in the magazine again unless they are in a position to completely substantiate their claim. Dr. Shaw also wrote A. L. Gebhardt Co., Tanners, Milwaukee, Wisc., manufacturers who treat this leather, and Mr. Arthur A. Gebhards, Jr. said that he had written to Jaxco in regard to the ad in question and that they agreed that their Advertising Agency

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was overzealous in writing up this ad, and that they were advising their Agency to bring the ad to the point, that is in keeping with the properties of Insuleather.

Another advertisement has been brought to our attention which is one by the International Nickel Co., 67 Wall St., New York 5, N. Y., in which they said in the body of the ad that flue gases up to 800°F. were too hot for regular asbestos damper curtains, and therefore, they recommended inconel alloy curtains. We believe that this advertising is also misleading, and Dr. Shaw is going to follow through in the same manner that he did with Jaxco with the advice of our Counsel.

It was also announced at the general meeting that we should extend our thanks to Mr. Andrew Whitfield of Keasbey & Mattison Co. for placing the new Asbestos Textile Institute Exhibit at the University of Pennsylvania, Moore Electrical School of Engineering, 200 S. 33rd St., Philadelphia, Pa. Mr. Whitfield is also looking into the possibility of putting the display in Lehigh University.

The Sales Promotion & Technical Committee met jointly to determine additional procedures for degradation tests. The Technical Committee is going to consolidate the degradation reports of Dr. Shaw into a relatively simple bar graph involving temperatures of 800°F. The Sales Promotion Committee as well as the Technical Committee agree that sometime in the future we are going to have to conduct tests up to possible 3000°F. but as we do not have equipment to run these tests at those temperatures at this time we are going to start with the known information which has been developed by Dr. Shaw and will go on from there sometime in the future.

Respectfully submitted,

John A. Brown, Jr.
Chairman,
Sales Promotion Committee

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ASBESTOS TEXTILE INSTITUTE
Treasurer's Report
June 2, 1958

ATI-106

Balance in Various Funds - March 7, 1958:

Fellowship Fund	\$ 7,356.15	
General Fund	397.64	
Petty Cash Fund	<u>71.48</u>	\$ 7,825.27

Receipts:

Assessments:		
General Fund	\$ 6,521.50	
Fellowship Fund	3,835.39	
General Fund Refund and Handbook Sales	<u>5.75</u>	10,362.64

Transfers:

To Petty Cash Fund from General Fund	\$ 183.50	
To General Fund from Fellowship Fund	138.42	321.92
		<u>\$ 18,509.83</u>

Disbursements:

<u>Fellowship Fund:</u>		
Fellowship Salary	\$ 2,478.02	
General Fund Transfer	<u>138.42</u>	\$ 2,616.44

<u>General Fund:</u>		
Secretary's Salary	\$ 777.24	
Secretary's Travel	70.94	
Meeting Expense	604.87	
Auditing Expense	3.00	
Stenographic Expense	135.00	
New Exhibit Expense	76.51	
Nuclear Energy Program	126.44	
Misc. Office Expense	264.34	
Petty Cash Transfer	<u>183.50</u>	2,241.84

<u>Petty Cash Fund:</u>		
Total Disbursements	<u>186.75</u>	\$ 5,045.03

Balance on Hand - June 2, 1958		<u>\$ 13,464.80</u>
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Balance in Various Funds - June 2, 1958:

Fellowship Fund	\$ 8,575.10	
General Fund	4,821.47	
Petty Cash Fund	<u>68.23</u>	<u>\$ 13,464.80</u>

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MT-003791

Ambler, Pa.
June 3, 1958

ATI-106

Mr. T. C. McCluskey, Treasurer
Asbestos Textile Institute

Dear Mr. McCluskey:

In compliance with your request, examination was made of the books and records of the Asbestos Textile Institute under Dr. M. C. Shaw's supervision on Monday, June 2, 1958. The audit covers the period from March 11, 1958 to June 2, 1958, inclusive.

The Balance Sheet of the Asbestos Textile Institute at June 2, 1958 is set forth below:

ASSETS

Total Cash in Bank (Schedule A)	\$13,396.57
Total Cash on H and	68.23
Postage on Hand	1.50
* Furniture & Equipment (nominal value)	1.00
	<u>\$13,467.30</u>

LIABILITIES

Philadelphia Wage Tax	\$ 32.84
Net Worth	<u>13,434.46</u>
	<u>\$13,467.30</u>

* Other asset items not included in above classification are shown in Schedule B.

The latest statement received from the depository (Chase-Manhattan Bank of New York), in which all funds of the Institute are kept, shows a balance of \$7,926.26 on April 30, 1958. The Petty Cash Fund totalling \$100.00 includes \$68.23 in cash and \$31.77 in vouchers. This fund was verified by actual count.

Schedule A: Showing a reconciliation of the Bank Balance at June 2, 1958:

Bank Balance per Latest Statement, April 30, 1958	\$ 7,926.26
Add: Bank Deposit of 5/5/58 and 5/22/58	<u>6,783.20</u>
	\$14,709.46
Less: Checks Drawn Subsequent to April 30, 1958	

<u>Check No.</u>	<u>Date</u>	<u>Payee</u>	<u>Amount</u>	
1318	4/25/58	Philadelphia Textile Institute	\$ 14.13	
1321	4/29/58	Modern Transfer Company	32.14	
1322	5/9/58	J. J. Cogan	10.00	
1323	5/12/58	University of Pennsylvania	17.16	
1324	5/12/58	M. C. Shaw	12.48	
1325	5/13/58	Petty Cash	93.94	
1326	5/22/58	A. Pomerantz Co.	22.92	
1327	5/22/58	Philadelphia Textile Institute	13.56	
1328	5/29/58	M. C. Shaw	921.46	
1329	5/29/58	First Pennsylvania Company	157.10	
1330	5/31/58	J. J. Cogan	<u>18.00</u>	1,312.89
BALANCE ON HAND IN BANK, June 2, 1958				<u>\$13,396.57</u>

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Checks numbered 1297 to 1301, inclusive, outstanding at the last audit, were examined and found to be in order. Bank deposits during this period under audit totalled \$10,362.64. \$3,835.39 was credited to the Fellowship Fund and \$6,527.25 credited to the General Fund.

A reimbursement transfer in the amount of \$183.50 was made from the General Fund to the Petty Cash Fund. Also, a transfer of \$138.42 was made from the Fellowship Fund to the General Fund for Lab. assistance and Lab. expense.

Schedule B: Other Assets of Asbestos Textile Institute:

<u>Item</u>	<u>Quantity</u>	<u>Description</u>	<u>Date Acquired</u>	<u>Purchase Cost</u>
(a)	7	Visual Aid Display Cases	January 1950	\$ 13,414.32
(b)	1	Suter Tensile Tester	August 1947	726.00
(c)	1	Heat Aging Furnace	April 1951	849.98
(d)	1	Bausch & Lomb Micro-Projector	May 1954	94.00
(e)	1	Brabender Moisture Tester	September 1954	765.00
(f)	1	Federal Thickness Gage	January 1947	50.50
(g)	1	Mapes Magnetic Analyzer	April 1953	100.00
(h)	1	Scott Twist Tester	December 1947	126.50
(j)		Office Furniture & Equipment	September 1954	757.50
(k)	1	Temco Muffleoven & Control	October 1954	161.00
(l)	1	Cenco Balance	October 1954	32.25
(m)	1	Electric Stopclock	October 1954	50.00
(n)	1	Abradoflex	January 1956	1,175.00
(o)	1	Exhibit - 4 Sections	March 1957	5,000.00
				<u>\$13,302.05</u>

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MT-003793

MINUTES of the Meeting of the
Sales Promotion Committee held
June 5, 1958.

The Sales Promotion Committee of the Asbestos Textile Institute met Thursday, June 5, at the Warwick Hotel with full representation of the member companies.

Mr. Whitfield presented to the Chairman of the Committee a glossy photograph of the Seal of Membership and also the text which was thought to be most appropriate for dissemination to various trade journals and publications. The Committee made some changes in the text of the message and a final form was finally agreed upon which was approved by our counsel, Mr. Ruddock. This material would be presented to Gray & Rogers and they in turn will arrange for publication of the picture and the message.

It was also requested in the Sales Promotion Committee meeting that the Secretary of the Asbestos Textile Institute contact the label manufacturing firms indicated in his notes on this subject and arrange for quotations on both the large and small letterhead labels so that we may order these in time to co-ordinate our shipments of materials with labels on the cartons with the announcement made to various publications.

In the last general meeting attention was called to the members of an advertisement by the International Nickel Company stating that flue gases up to 800°F. were too hot for damper curtains, made out of regular asbestos. A protest was sent by the Secretary to the International Nickel Company and we received a letter indicating that they were in error in this case and would not use this advertisement in the future.

Insofar as the large exhibit is concerned, it is now in the engineering department at Lehigh University where we hope possibly it will remain.

Mr. Whitfield at Keasbey & Mattison Company is also contacting the Department of Commerce to determine if we can put the exhibit in the Department for the second time. Also, Mr. Whitfield is going to contact Franklin Institute.

Mr. Arthur Byrnes of Tallman-McCluskey Fabrics Company is going to contact the Museum of Science & Industry in Chicago and determine if at some future date they would be willing to take this exhibit on a temporary basis of one year and will so advise the chairman of the Committee.

The Chairman of the Sales Promotion Committee also wishes to go on record for the committee's appreciation of the work which Mr. Andrew Whitfield of Keasbey & Mattison has done in helping the committee in all phases of its work.

Respectfully submitted,

John A. Brown, Jr. - Chairman

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MT-003794

IN ATTENDANCE:

J. A. Bettles, President
RAYBESTOS-MANHATTAN, INC.

AMERICAN ASBESTOS TEXTILE CORP.
A. J. Scanlan

TALLMAN-McCLUSKEY FABRICS CO.
A. R. Byrnes

JOHNS-MANVILLE CORP.
W. S. Hough

CADWALADER, WICKERSHAM & TAFT
M. I. Ruddock

KEASBEY & MATTISON CO.
D. W. Widmayer

ASBESTOS TEXTILE INSTITUTE
M. C. Shaw

SOUTHERN ASBESTOS CO.
J. T. Griffis

1. The meeting was called to order by President Bettles and a letter was read from Mr. T. C. McCluskey advising that he would be unable to represent Tallman-McCluskey Fabrics Company at this meeting due to pressing matters in St. Louis. Mr. A. R. Byrnes was therewith recognized as the representative from that company.
2. The subjects presented for consideration at this meeting were the committee reports presented by the chairman of each of the active committees of the association.

Air Hygiene and Manufacturing Committee. The Air Hygiene and Manufacturing Committee report was presented by Mr. A. E. May and a review of the several discussions pursued by this group in meeting earlier on this date were presented for consideration. The complete report as presented at the General meeting and covering the subjects here discussed is attached as a part of the minutes of the General meeting.

Technical Committee. The Technical Committee report was presented by Chairman Edw. Beale and covered the discussions held earlier on this date by this committee. The work of the subcommittees concerned with cloth, tape and braid was reviewed and the final report by the braid committee presented. The work of the cloth and tape committees is currently up to date, awaiting further decisions relative to heat aging test data. Considerations related to the proposed revisions of MIL-I-3053A were also reviewed and the work of Dr. Maier concerned with nuclear radiation studies of asbestos were discussed. The full report as presented at the General meeting is attached as a part of the minutes of the General meeting.

Sales Promotion Committee. The Sales Promotion Committee report was presented by Chairman J. A. Brown. This committee in session earlier on this date discussed many subjects concerned with the promotion of asbestos textile usage and sales and a review of these discussions comprised the report of this committee at this time. The full report by Mr. Brown is attached as a part of the minutes of the General meeting.

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3. Following the reports by the committee chairmen the formal agendum for the meeting was pursued and the Treasurer's Report was first offered for consideration. This report was thoroughly reviewed and the several phases of the financial statement considered. Following the discussion it was moved by Mr. J. T. Griffis, seconded by Mr. W. S. Hough and unanimously agreed that the report be accepted and that it be recommended for approval at the General meeting.

It was also announced, as a matter of reference to the financial status of the Institute, that the annual Fellowship Grant to the Philadelphia Textile Institute will be due on September 1, 1958 and will be paid at that time in accordance with the provisions set forth in the adopted budget for 1958, in the amount of \$3,000.00.

4. The next subject presented for discussion was introduced under old business and had reference to the establishment of a "Fiber Evaluation Committee". This matter has been under consideration for some time, however, a lack of unity of understanding between potential participants in such a program has deterred progress. However, most differences have now been resolved and it has now been determined to initiate work along these lines. To this end the following committee has been appointed and they will be informed by President Bettes as to the purpose of their organization and their primary objectives. The committee members are:

C. R. Hutchcroft, Keasbey & Mattison Co., Chairman
J. W. Weber, American Asbestos Textile Corp.
I. Barnett, Johns-Manville Corp.
M. S. Maier, Raybestos-Manhattan, Inc.
J. L. Mitchell, Southern Asbestos Co.
T. C. McCluskey, Tallman-McCluskey Fabrics Co.

5. The final item under old business concerned the invitation to associate membership extended to Israel Asbestos Brake Lining Manufacturers. Invitation was extended on April 23, 1958, however, there has been no word of acceptance yet received.
6. There being no further business to come before this session it was moved by Mr. D. W. Widmayer, seconded by Mr. A. J. Scanlan and unanimously agreed that the meeting be adjourned.

Myril C. Shaw,
Secretary

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POSTER
ASBESTOS TEXTILE INSTITUTE

MEMBER COMPANIES

AMERICAN ASBESTOS TEXTILE CORP.
Norristown, Pa.
JOHNS-MANVILLE CORPORATION
New York 16, N. Y.
KEASBEY & MATTISON COMPANY
Ambler, Pa.
RAYBESTOS-MANHAUTMAN, INC.
Marheln, Pa.
SOUTHERN ASBESTOS COMPANY
Charlotte 1, N. C.
TALLMAN-McCLUSKEY FABRICS CO.
St. Louis, Mo.

ASSOCIATE MEMBERS

ASBESTOS CORPORATION, LTD.
Thetford Mines, Quebec, Canada
BELL ASBESTOS MINES LTD.
Thetford Mines, Quebec, Canada
BRITISH BELTING AND ASBESTOS, LTD.
Cleckheaton, Yorkshire, England
THE CAPE ASBESTOS COMPANY, LTD.
London, W.1, England
CASSIAR ASBESTOS CORP., LTD.
Toronto, Canada
ENGLISH ASBESTOS COMPANY, LTD.
Bristol 4, England
JOHNSON'S COMPANY, LTD.
Thetford Mines, Quebec, Canada
SMALL & PARKES, LTD.
Manchester 9, England
SOCIETE ANONYME FRANCAISE DU FERRODO
Paris, France

ASBESTOS TEXTILE INSTITUTE

GENERAL MEETING

Hotel Warwick
Philadelphia, Pa.
June 5-6, 1958

OFFICERS

President J. A. Bettes
 Vice President J. T. Griffiths
 Treasurer T. C. McCluskey
 Secretary M. C. Shaw

BOARD OF GOVERNORS

J. A. Bettes
 J. T. Griffiths
 W. S. Hough
 D. W. Widmayer
 A. J. Scanlan
 R. S. Tallman

LEGAL COUNSEL

M. I. Ruddock
 Cadwalader, Wickersham & Taft

COMMITTEES

Sales Promotion:

J. A. Brown, Chair.
 A. R. Byrnes
 J. T. Griffiths
 G. J. Harris
 S. I. Harris
 W. S. Hough
 A. J. Scanlan
 E. A. Schuman
 A. E. Whitfield

Air Hygiene & Mfg.

A. E. May, Chair.
 H. M. Jackson
 B. W. Lutenberger
 J. E. Cerny
 J. L. Mitchell
 R. B. Smith
 J. W. Weber

Technical:

Edw. Beale, Chair.
 E. C. Outler
 M. S. Maier
 J. D. McGluer
 T. C. McGluskey
 M. W. Oliver
 D. F. Queally
 J. L. Tucker

Fiber:

J. A. Marcotte, Chair.
 J. D. Christian
 R. E. Cryor
 A. W. G. Gibb
 J. C. Kelleher
 F. Parker Smith

MEETING SCHEDULE

Thursday, June 5, 1958:

Technical Committee --- 9:30 A.M. - 5:00 P.M.
 Room 321

Air Hygiene & Mfg. Committee --- 9:30 A.M. - 5:00 P.M.
 Room 319

Sales Promotion Committee - 9:30 A.M. - 5:00 P.M.
 Secretary's Suite

Board of Governors - 6:00 P.M. - Secretary's Suite

Friday, June 6, 1958:

General Meeting --- 9:30 A.M. - Colonial Room

Luncheon -- 12:30 P.M. - Jr. Colonial Room

GENERAL MEETING AGENDA

Call to Order by the President --- 9:30 A.M.
 Minutes of Last Meeting
 Treasurer's Report
 Secretary's Report
 Legal Counsel Report
 Committee Reports:

Air Hygiene & Mfg. --- A. E. May
 Sales Promotion --- J. A. Brown, Jr.
 Technical --- Edw. Beale
 Fellowship Report --- M. C. Shaw

Old Business
 New Business
 Adjournment
 Luncheon

MINUTES of the General Meeting
of the Asbestos Textile Institute
held June 6, 1958 in Philadelphia,
Pa.

IN ATTENDANCE:

J. A. Bettles, President
RAYBESTOS-MANHATTAN, INC.

AMERICAN ASBESTOS TEXTILE CORP.

M. Scanlan
J. W. Weber

JOHNS-MANVILLE CORP.

W. S. Atkinson
J. G. Battersby
Edw. Beale
N. W. Hendry
W. S. Hough
J. C. Kelleher
E. A. Schuman
U. D. Torrance

KEASBEY & MATTISON CO.

S. I. Harris
A. E. May
R. R. Porter
D. F. Queally
A. E. Whitfield
D. W. Widmayer

RAYBESTOS-MANHATTAN, INC.

J. A. Brown
M. S. Maier
M. W. Oliver
R. B. Smith

SOUTHERN ASBESTOS CO.

J. T. Griffis
G. J. Harris
J. L. Mitchell

TALLMAN-MCCLUSKEY FABRICS CO.

A. R. Byrnes

ASBESTOS CORPORATION, LTD.

J. A. D. Marcotte

BELL ASBESTOS MINES

F. Parker Smith

CASSIAR ASBESTOS CORP., LTD.

T. T. Tigert

JOHNSON'S COMPANY, LTD.

A. W. G. Gibb
A. S. Johnson, Jr.

CADWALADER, WICKERSHAM & TAFT

M. I. Ruddock

ASBESTOS TEXTILE INSTITUTE

M. C. Shaw

1. The meeting was called to order by President Bettles and an address of welcome extended to all of those in attendance. Recognition was extended to Mr. Kelleher and Mr. Hendry, representatives from Canadian Johns-Manville; Mr. Battersby, Johns-Manville, Philadelphia; and Mr. Andrew Johnson, Jr., Johnson's Company, Thetford Mines, Canada, all of whom were in attendance at an Asbestos Textile Institute meeting for the first time.
2. The minutes of the last meeting of the Institute were presented for reading, however, since all members had received copies of these minutes and were familiar with those transactions, it was moved by D. W. Widmayer, seconded by W. S. Hough and unanimously agreed that the minutes as written be approved.
3. The Treasurer's Report was read by the Assistant Treasurer, in the absence of Treasurer McCluskey. Following a discussion of this report it was moved by W. S. Hough, seconded by J. T. Griffis and unanimously agreed that the report be accepted and attached as a part of the minutes of this meeting.

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4. The next portion of the meeting was devoted to an address by legal counsel, M. I. Ruddock, who discussed practices and procedures which should be followed by any corporation with respect to anti-trust investigations. He stated that his observations were based upon four Grand Jury investigations in other industries in which he had recently been involved and that they had no reference to this industry except as matters of general information.
5. The next segment of the meeting was devoted to committee reports presented by the chairman of each of the active committees of the Institute.

Fiber Committee. Mr. J. A. D. Marcotte, Chairman, reported that fiber supplies were well above the demand and the outlook indicated that, particularly in the case of spinning grade fibers, this condition will prevail for some time. Mr. Marcotte also reported that, in response to a request by the Asbestos Textile Institute, Quebec Asbestos Mining Association has initiated a program of investigation designed to compliment the work of the Institute in fiber evaluation. Mr. George Jenkins, Asbestos Corporation, has been named chairman of the group to undertake this work for Q.A.M.A. and this group will be in close contact with the A.T.I. group as the work progresses. Mr. Marcotte also reported that during his recent trip to Central and South America he found business conditions in South America very much the same as those in this country but that in Central America conditions were somewhat better than we are experiencing.

Air Hygiene & Manufacturing Committee. Mr. A. E. May, Chairman, reported upon the discussions pursued by this committee in meeting on June 5. The full report as presented is attached as a part of these minutes.

Sales Promotion Committee. Mr. J. A. Brown, Chairman, presented the report covering the activities of this committee during the past quarter and the discussions pursued during the committee meeting held on June 5. This committee has been engaged in several promotional activities during recent months and the results of these efforts were here reported. The establishment of the Seal of Membership Program has been practically completed and it is hoped that it may be launched within the next few months. The efforts of this committee to expose untrue or adverse advertising as it affects asbestos textiles have recently directed attention toward an advertisement by the International Nickel Company and the results of this encounter are included in this report. The new exhibit schedule was reviewed and plans for the future outlined. The full report as presented at the General meeting is attached as a part of the minutes of this meeting.

Technical Committee. Mr. Edw. Beale, Chairman, presented a report covering the discussions held by this committee in meeting on June 5. The work of the several subcommittees was reviewed and the present status of this work defined. Activities in the revision of several Federal and A.S.T.M. specifications were described. Also, as a part of the Technical Committee report, Dr. Maier reported upon the progress of the Institute's studies designed to determine the effect of nuclear radiation upon the physical properties of asbestos and the materials produced therefrom. A preliminary series of tests has been completed, however, the formal report covering the results of these tests has not yet been received and there was therefore nothing that could be reported covering this activity. It was further reported that a second series of tests is about to be started for which Dr. Maier has furnished typical samples of chrysotile, amosite and crocidolite. This later test will be set in motion very soon, however, the

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duration of test may run from 6 months to a year and the results to be obtained will therefore not be available for some time. The complete report of the Technical Committee as presented at the General meeting is attached as a part of the minutes of this meeting.

6. The Fellowship Report was presented by Dr. Shaw and included therein was a new graphic presentation of heat aging test data, as requested by the Sales Promotion Committee. Also included in this report is a discussion related to the thermal conductivity properties of asbestos textiles. The full report as presented is attached as a part of the minutes of this meeting.
7. Upon completion of the committee reports, subjects of old business were introduced for the attention and consideration of the membership.
 - a) Under this item the subject of the establishment of a Fiber Evaluation Committee was introduced. This subject has been under consideration by the Institute for some time, however, until recently the extent of the membership and the specific purposes of such a committee have not been sufficiently well defined to permit its activation. These factors have now been established and steps were here initiated to place such a committee in service to accomplish the desired ends. The membership of the committee will be as follows:

American Asbestos Textile Corp.--	Mr. John Weber
Johns-Manville Corp. -----	Mr. Irving Barnett
Keasbey & Mattison Co. -----	Mr. C. R. Hutchcroft, Chairman
Raybestos-Manhattan, Inc. -----	Dr. M. S. Maier
Southern Asbestos Co. -----	Mr. J. L. Mitchell
Tallman-McCluskey Fabrics Co. ---	Mr. T. C. McCluskey

The purpose and duty of this committee is set forth in the following statement by President Bettes in his charge to this committee.

"It should be definitely understood the purpose and duty of the Committee is to develop a more accurate and scientific method of measuring and evaluating asbestos spinning fibre. The Committee should carefully avoid taking any action which will discredit the product of any asbestos mine or mines. It will not be our purpose at this time to establish grades for asbestos spinning fibre. What we hope to accomplish initially is simply this. If a bag of spinning fibre were divided in six parts and forwarded to the Laboratories of our six member companies for evaluation, we would obtain six reports essentially alike."

8. Under the subject of new business attention was directed to recent bids for Navy cloth wherein one of the conditions of purchase is based upon the Buy American Act. This issue presently emanates from the General Stores Supply Office in Philadelphia and in essence would seem to dictate that American chrysotile (Arizona) be processed in the manufacture of textiles to satisfy such orders. Practically and economically speaking it would be extremely difficult, if indeed feasible, to comply with such conditions. President Bettes has therefore appointed a committee to confer with the authorities at U. S. Navy, General Stores Supply Office, in an effort to

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clarify the position of the manufacturer in this regard and to endeavor to have the Navy include chrysotile asbestos on the list of materials exempted from the Buy American Act. The Committee appointed to serve in these endeavors is composed of:

Mr. A. E. Whitfield, Chairman
Mr. A. J. Scanlan
Dr. M. C. Shaw

9. During the closing portion of this meeting the membership was addressed briefly by Mr. R. R. Porter, Keasbey & Mattison Company and Mr. J. C. Kelleher, Canadian Johns-Manville Corp.

Mr. Porter addressed pertinent remarks relative to the dilemma in which the automobile industry finds itself today as a result of the labor-management negotiations currently under consideration. It was pointed out that the impact of the outcome of these deliberations will have a marked influence upon the automobile industry for some time to come.

Mr. Kelleher, announcing that he will retire this year from active service at Canadian Johns-Manville, expressed optimistic views regarding the future of the industry in which he has spent so many years and further observed that the future of the industry lies in the development of new fields of application for the products composed of asbestos.

In closing, Mr. Bettes expressed the appreciation of the membership to both of these gentlemen for their very pertinent remarks and further expressed the hope that they would attend our meetings whenever possible.

There being no further business to come before this meeting, it was moved by Mr. Griffis, seconded by Mr. Widmayer and unanimously agreed that the meeting be adjourned.

Myril C. Shaw,
Secretary

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ASBESTOS TEXTILE INSTITUTE
Treasurer's Report
September 8, 1958

Balance in Various Funds - June 2, 1958:

Fellowship Fund	\$ 8,575.10	
General Fund	4,821.47	
Petty Cash	<u>68.23</u>	\$ 13,464.80

Receipts:Assessments:

Fellowship Fund	\$ 8,295.40	
General Fund	4,524.16	
Handbook Sales - General Fund	<u>19.00</u>	12,838.56

Transfers:

To Petty Cash From General Fund	\$ 88.34	
To Fellowship Fund From General Fund	<u>102.25</u>	<u>190.59</u>
		\$ 26,493.95

Disbursements:Fellowship Fund:

Fellowship Renewal Grant	\$ 3,000.00	
Fellowship Salary	2,399.98	
Assessment Refund	<u>108.04</u>	\$5,508.02

General Fund:

Secretary's Salary	\$ 750.02	
Secretary's Travel	49.83	
Meeting Expense	644.35	
Auditing Expense	3.00	
Legal Expense	1,066.05	
Stenographic Expense	135.00	
Misc. Office Expense	129.85	
Assessment Refunds	53.41	
Petty Cash Transfer	88.34	
New Exhibit Expense	500.00	
Fellowship Fund Transfer	<u>102.25</u>	3,533.10

Petty Cash Fund:

Total Disbursement	\$ 98.49	<u>98.49</u>
		\$ 9,128.61

Balance on Hand - September 8, 1958	<u><u>\$ 17,365.34</u></u>
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Balance in Various Funds - September 8, 1958:

Fellowship Fund	\$ 11,464.73	
General Fund	5,842.53	
Petty Cash Fund	<u>58.08</u>	

\$ 17,365.34

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Respectfully submitted,

T. C. McCluskey

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JM - 83

Ambler, Pa.
September 9, 1958

ATI-106

Mr. T. C. McCluskey, Treasurer
Asbestos Textile Institute

Dear Mr. McCluskey:

In compliance with your request, examination was made of the books and records of the Asbestos Textile Institute under Dr. M. C. Shaw's supervision on Monday, September 8, 1958. The audit covers the period from June 3, 1958 to September 8, 1958, inclusive.

The Balance Sheet of the Asbestos Textile Institute at September 8, 1958 is set forth below:

ASSETS

Total Cash in Bank (Schedule A)	\$17,307.26
Total Cash on Hand	58.08
Postage on Hand	7.33
* Furniture & Equipment (nominal value)	1.00
	<u>\$17,373.67</u>

LIABILITIES

Philadelphia Wage Tax	\$ 32.84
Net Worth	<u>17,340.83</u>
	<u>\$17,373.67</u>

* Other Asset items not included in above classification are shown in Schedule B.

The latest statement received from the depository (Chase-Manhattan Bank of New York), in which all funds of the Institute are kept, shows a balance of \$21,339.39 on August 29, 1958. The Petty Cash Fund totalling \$100.00 includes \$58.08 in cash and \$41.92 in vouchers. This fund was verified by actual count.

Schedule A: Showing a reconciliation of the Bank Balance at September 8, 1958:

Bank Balance per Latest Statement, August 29, 1958 \$21,339.39

Less: Checks Drawn Subsequent to August 30, 1958

Check No.	Date	Payee	Amount
1353	9/1/58	Philadelphia Textile Inst.	\$3,000.00
1354	9/2/58	Museum of Science & Industry	500.00
1355	9/4/58	Cadwalader, etc.	532.13
			<u>\$ 4,032.13</u>

BALANCE ON HAND IN BANK, September 8, 1958 \$17,307.26

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Checks numbered 1318, 1321 to 1330, inclusive, outstanding at the last audit, were examined and found to be in order. Bank deposits during this period under audit totalled \$12,838.56. \$8,295.40 was credited to the Fellowship Fund and \$4,543.16 credited to the General Fund.

A reimbursement transfer in the amount of \$88.34 was made from the General Fund to the Petty Cash Fund. Also, a transfer of \$102.25 was made to the Fellowship Fund from the General Fund.

Schedule B: Other Assets of Asbestos Textile Institute:

<u>Item</u>	<u>Quantity</u>	<u>Description</u>	<u>Date Acquired</u>	<u>Purchase Cost</u>
(a)	7	Visual Aid Display Cases	January 1950	\$ 3,414.32
(b)	1	Suter Tensile Tester	August 1947	726.00
(c)	1	Heat Aging Furnace	April 1951	849.98
(d)	1	Bausch & Lomb Micro-Projector	May 1954	94.00
(e)	1	Brabender Moisture Tester	September 1954	765.00
(f)	1	Federal Thickness Gage	January 1947	50.50
(g)	1	Mapes Magnetic Analyzer	April 1953	100.00
(h)	1	Scott Twist Tester	December 1947	126.00
(j)		Office Furniture & Equipment	September 1954	757.50
(k)	1	Temco Muffleoven & Control	October 1954	161.00
(l)	1	Cenco Balance	October 1954	32.25
(m)	1	Electric Stopclock	October 1954	50.00
(n)	1	Abradoflex	January 1956	1,175.00
(o)	1	Exhibit - 4 Sections	March 1957	5,000.00
				<u>\$13,302.05</u>

Yours very truly

S. C. Gehman, Auditor

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MS 004399

ASBESTOS TEXTILE INSTITUTE

ROSTER ASBESTOS TEXTILE INSTITUTE

MEMBER COMPANIES

AMERICAN ASBESTOS TEXTILE CORP.
Norristown, Pa.
JOHNS-MANVILLE CORPORATION
New York 16, N. Y.
KEASBEY & MATTISON COMPANY
Ambler, Pa.
RAYBESTOS-MANHATTAN, INC.
Manheim, Pa.
SOUTHERN ASBESTOS COMPANY
Charlotte 1, N. C.
TALLMAN-McCLUSKEY FABRICS CO.
St. Louis, Mo.

ASSOCIATE MEMBERS

ASBESTOS CORPORATION, LTD.
Thetford Mines, Quebec, Canada
BELL ASBESTOS MINES LTD.
Thetford Mines, Quebec, Canada
BRITISH BELTING AND ASBESTOS, LTD.
Cleckheaton, Yorkshire, England
THE CAPE ASBESTOS COMPANY, LTD.
London, W.1, England
GLASSIAR ASBESTOS CORP., LTD.
Toronto, Canada
ENGLISH ASBESTOS COMPANY, LTD.
Bristol 4, England
JOHNSON'S COMPANY, LTD.
Thetford Mines, Quebec, Canada
SMALL & PARKES, LTD.
Manchester 9, England
SOCIETE ANONYME FRANCAISE DU FERODO
Paris, France

GENERAL MEETING

Hotel Commodore

New York, N. Y.

Sept. 11-12, 1958

OFFICERS

President J. A. Bettes
 Vice President J. T. Griffis
 Treasurer T. C. McCluskey
 Secretary M. C. Shaw

BOARD OF GOVERNORS

J. A. Bettes
 J. T. Griffis
 W. S. Hough
 A. J. Scanlan
 R. S. Tallman
 D. W. Widmeyer

LEGAL COUNSEL

M. I. Ruddock
 Cadwalader, Wickersham & Taft

COMMITTEES

Sales Promotion:

J. A. Brown, Chair.
 A. R. Byrnes
 J. T. Griffis
 G. J. Harris
 W. S. Hough
 A. J. Scanlan
 E. A. Schuman
 A. E. Whitfield

Air Hygiene & Mfg.

A. E. May, Chair.
 J. E. Cerny
 H. M. Jackson
 B. W. Luttenberger
 J. L. Mitchell
 R. B. Smith
 J. W. Weber

Technical:

Edw. Beale, Chair.
 E. C. Cutler
 M. S. Maier
 J. D. McCluer
 T. C. McCluskey
 M. W. Oliver
 D. F. Queally
 J. L. Tucker

Fiber:

J. A. Marcotte, Chair.
 J. D. Christian
 R. E. Cryor
 A. W. G. Glibb
 J. C. Kelleher
 F. Parker Smith

MEETING SCHEDULE

Thursday, Sept. 11, 1958:

Technical Committee --- 9:30 A.M. - 5:00 P.M.
 Parlor E

Air Hygiene & Mfg. Committee --- 9:30 A.M. - 5:00 P.M.
 Parlor F

Sales Promotion Committee --- 9:30 A.M. - 5:00 P.M.
 Secretary's Suite

Board of Governors - 6:00 P.M. - Secretary's Suite

Friday, Sept. 12, 1958:

General Meeting --- 9:30 A.M. - West Ballroom

Luncheon --- 12:30 P.M. - West Ballroom
 * * * * *

GENERAL MEETING AGENDA

Call to Order by the President --- 9:30 A.M.
 Minutes of Last Meeting
 Treasurer's Report
 Secretary's Report
 Legal Counsel Report
 Committee Reports:

Air Hygiene & Mfg. --- A. E. May
 Sales Promotion --- J. A. Brown, Jr.
 Technical --- Edw. Beale
 Fellowship Report --- M. C. Shaw

Old Business
 New Business
 Election of Board of Governors
 Adjournment
 Luncheon

MEETING HELD Sept. 11, 1958

1. Asbestos Textile Institute Seal of Membership - In order that we might get the releases to various publications and trade journals off as soon as possible, and also because of the considerable reduction in costs of doing so with the Advertising Department of Raybestos-Manhattan as compared to an Advertising concern, with the cooperation of Mr. S. R. Robinson news releases were printed under the letterhead of the Asbestos Textile Institute, glossy prints were obtained of the Seal and a publicity list of 153 magazines and periodicals were developed by the Advertising Department of Raybestos-Manhattan, Inc., and the release and glossy print were mailed to each of these outlets.

As it may be five to six weeks before any of the periodicals would print the release, we feel that Dr. Shaw will by that time have received both the package size and letterhead size Seals of Membership in time for us to use them as the releases are published. Any member of the Asbestos Textile Institute may order a supply from Dr. Shaw of both these seals as required.

2. Insofar as the new exhibit of the Asbestos Textile Institute is concerned, this has been sent to the Museum of Science and Industry in Chicago, Ill. One of the interesting features of this was an attendance survey which was obtained by Mr. Arthur Byrnes of the Tallman-McCluskey Fabrics Co., a few of the excerpts following may be of interest. -

During 1957 a total of 2,366,681 people visited the Museum, while in August 346,943 people were present. Twenty-nine percent of the visitors were from Chicago, and on two individual days visitors were represented from forty-four states, on two other days they were present from forty-six states, on one day from forty-seven states, and on one day from forty-eight states. Other studies have indicated that the average visitor and school groups of which there were 7,154 stayed a period of three hours and twelve minutes in the Museum.

Also our exhibit is going to be in the entrance of a section which is going to contain portions of exhibits from the Brussels World Fair which should be very effective.

On the above two items I believe that the membership of the Institute should go on record as indicating our appreciation not only of the efforts of Mr. Arthur Byrnes, but also of the time spent on our Seal of Membership by Mr. S. R. Robinson of the Advertising Department of Raybestos-Manhattan, Inc.

3. In order to make the work of the Sales Promotion Committee of the Asbestos Textile Institute more effective we have developed a new policy of members of this committee writing to the Chairman of the Sales Promotion Committee giving ideas as to new uses or interesting uses of asbestos textiles. The Chairman with the Secretary of the Institute will endeavor to write articles developed from these ideas which in turn will be released to various trade journals. We believe this is definitely a step in the right direction and will enable us to have some continuity in news releases throughout the year.

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4. So far as other matters pursued during the last year, we have through the good offices of the Secretary of the Asbestos Textile Institute received retractions or stopped advertising with several companies whose ads were not factual and were adversely affecting the use of asbestos textiles in certain applications.

Respectfully submitted,

John A. Brown, Jr., Chairman
Sales Promotion Committee

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MINUTES: ASBESTOS TEXTILE INSTITUTE. Fiber Evaluation Committee.
September 11, 1958

The meeting was held at the Hotel Commodore, New York.

Those present:

C. R. Hutchcroft, Committee Chairman, Keasbey & Mattison Co.
M. S. Maier, Raybestos-Manhattan, Inc.
J. D. McCluer, Southern Asbestos Co.
J. L. Mitchell, Southern Asbestos Co.
T. C. McCluskey, Tallman-McCluskey Fabrics Co.
H. A. Smith, Bell Asbestos Mines, Representing Q.A.M.A.
J. D. Christian, Cassiar Asbestos Corp.
T. T. Tigert, Cassiar Asbestos Corp.
I. Barnett, Johns-Manville Corp.

Agenda:

- I. General Discussion of Committee Policies and Program.
- II. Technical Projects.

I. General Discussion of Committee Policies and Program

A. New Committee Title.

Since the purpose of the committee is to develop test procedures for dependable measurement of properties of textile grade asbestos fiber rather than evaluate its usefulness for textiles, the committee suggested a change in title to "Fiber Testing Committee," which would be more descriptive than "Fiber Evaluation Committee." The Chairman will request the Board of Governors at the A.T.I. for permission to change the title as suggested.

B. Coordinating Committee.

It was recommended that the A.T.I. organize a coordinating committee on fiber testing to consist of the Chairman of the Fiber Testing Committee or appropriate technical committee of each of the following organizations:

Asbestos Cement Products Association
Quebec Asbestos Mining Association
Asbestos Textile Institute

This committee acting as liaison between the organizations would prevent duplication of work and would assure uniformity in test methods as adopted by each group.

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C. Q.A.M.A. Meetings.

It was recommended that the Chairman of this committee or an alternate attend the meetings of the Technical and Research Committee of the Q.A.M.A.

II. Technical Projects.

Discussion on the list of testing procedures as outlined in their order of importance was started and tentative methods were developed.

A. Sampling and Preparation of Fiber in the "As Received" Condition.

Scope

This method covers the procedure for sampling asbestos fiber and the preparation of the samples for standard tests.

Sampling and preparation are equally as important as the testing and every precaution should be taken to obtain and to prepare samples that will indicate the true character and condition of the asbestos fiber which they represent.

Part 1. Sampling

Equipment

One clean container of suitable size for each composite sample of fiber.

Procedure

- a. Prepare a five (5) pound composite sample from each lot consisting of 200 bags or part thereof by selecting 20 handfuls (approximately 4 oz) each from a different 1/20 of the lot.
- b. When shipments exceed a lot of 200 bags, but not in excess of 2000 bags, composite samples may be combined into one master composite sample at the discretion of the tester.
- c. Samples shall be kept in closed containers placed in covered storage for subsequent testing.

Part 2. Preparation

Equipment

Smooth, clean area.

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Procedure

- a. Each individual composite sample, or group of composites, shall first be allowed to approximate average work-room temperatures and humidity, (moisture content of sample should not exceed three per cent) and shall then be subdivided for testing in accordance with the following method.
- b. Spread each composite as obtained in Part 1 on the smooth, clean area.
- c. Mix the sample thoroughly with the hands by means of a gentle action. This will involve passing the fiber through the hands with gentle rubbing in order to break up and to separate lumps and clots.
- d. When the sample is intimately mixed, spread it out evenly over the smooth, clean area.
- e. Quarter the sample, place aside the full thickness of two diametrically opposite quarters, and reblend the remainder. Continue this quartering until a 5 lb sample is obtained.
- f. This 5 lb composite sample will be used as the source of fiber for each individual test.
- g. For extraction of samples for test spread the 5 lb sample, or quartered-fraction thereof, on a smooth, clean surface and take a sample of the desired size from each quarter using the full thickness of the pile.

B. Fiber Length.

Discussion was held on the principal wet and dry test equipment and procedures used in the industry for measuring the length distribution of asbestos fiber. Since there are variations in technique in conducting the tests as reported by member companies, suggested changes were made in each test for investigation by the company or organization shown below.

Bauer-McNett Wet Classifier - Raybestos-Manhattan, Inc.

- a. Use standard sampling method outlined above and conduct tests on:

Cassiar A
Bell or J-M 3R

- b. Use screen sizes 4M - 8M - 35M - 100M (and 200M). The selection between 100M and 200M will be based upon convenience of conducting test and reproducibility.
- c. Time of running test will be from 15 minutes to an end point. The end point will be selected from the fiber length - time curve.

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- d. If agreement in results can be found using the technique as suggested or further modified, the recommended procedure will be reported in detail (20 copies) to the Committee Chairman prior to the next meeting. One or more standard samples will be prepared for distribution to all members of the association who wish to participate in confirming tests.

Ro-Tap - Johns-Manville Corp.

- a. Use standard sampling method and conduct tests on:

Cassiar A
Bell or J-M 3R

- b. Use 50 gram sample and shaker equipped with standard block.
- c. Use Tyler standard mesh sieves:

1,050 - 0,525 - 3M - 6M - 10M - 20M - Pan

(If one-half depth pans are available insert 35M after 20M and if fiber drops too fast through 1,050 replace with 0,742.)

- d. Time of running to be 10 minutes to an end point.
- e. As above, report details of results (20 copies) to Chairman prior to next meeting and prepare representative samples as requested by member companies for confirming tests.

Quebec Standard Screen Test - Q.A.M.A.

- a. Use standard sampling method and conduct tests on:

Cassiar A
Bell or J-M 3R

- b. Use 0.742 opening as top screen and remove 10 mesh screen.
- c. Time of running to be present standard to an end point.
- d. Report as above (20 copies) and prepare standard samples as requested by member companies.

Clark Classifier - Keasbey & Mattison Co.

- a. Use standard sampling method and conduct tests on:

Cassiar A
Bell or J-M 3R

- b. Use discs with perforations of 1/2 (or 3M) - 1/4 - 1/8 - 30M.

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- c. Determine end point in time of running test.
- d. Report as above (20 copies) and prepare standard samples.

Suter-Webb Comb - Cassiar Asbestos Corp.

- a. Use standard sampling method and conduct tests on:

Cassiar A
Bell or J-M 3R

- b. Determine reproducibility of test.
- c. Report as above (20 copies) and prepare standard samples.

Optical Tests

The Fibrograph and Vu-graph were discussed and members who have investigated those methods of measuring fiber length recommended them impractical for asbestos fiber.

Respectfully submitted,

Irvin Barnett
Secretary

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MINUTES of the Meeting of the
Board of Governors of the
Asbestos Textile Institute held
September 11, 1958 in New York,
N. Y.

IN ATTENDANCE:

J. A. Bettles, President
RAYBESTOS-MANHATTAN, INC.

AMERICAN ASBESTOS TEXTILE CORP.
A. J. Scanlan

TALLMAN-McCLUSKEY FABRICS CO.
R. S. Tallman
T. C. McCluskey

JOHNS-MANVILLE CORP.
W. S. Hough
L. R. Hoff

CADWALADER, WICKERSHAM & TAFT
M. I. Ruddock

KEASBEY & MATTISON CO.
D. W. Widmayer

ASBESTOS TEXTILE INSTITUTE
M. C. Shaw

SOUTHERN ASBESTOS CO.
J. T. Griffis

1. The meeting was called to order by President Bettles and, as the first order of business, the chairman of the several active committees were called upon to present resumes of the formal reports that would be presented at the General meeting. Committee reports were presented by the following chairmen:

Air Hygiene & Manufacturing -- A. E. May
Sales Promotion -- J. A. Brown, Jr.
Technical -- Edw. Beale
Fiber Testing -- C. R. Hutchcroft
Nuclear Radiation Testing -- M. S. Maier

The formal reports as presented are attached as a part of the minutes of the general meeting.

2. Following the committee reports, the formal meeting of the Board of Governors was convened and the minutes of the last meeting were presented for reading. Since all members had received copies of these transactions and were familiar with their contents, it was moved by Mr. Widmayer, seconded by Mr. Griffis and unanimously agreed that the reading be omitted at this time.
3. The Treasurer's Report was next presented by Mr. T. C. McCluskey. Following a discussion of this report it was moved by Mr. Griffis, seconded by Mr. Widmayer and unanimously agreed that the report be accepted and presented at the general meeting for inclusion as a part of the minutes of that meeting.

Following the Treasurer's Report, a report drafted by the assessment auditor, Mr. Caruso, was presented in fulfillment of a request made by the Board at the last meeting at which time a request was made for the determination of the assessments for 1958 based upon sales rather than card room production

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as is provided for in the constitution. The data here developed was carefully studied and revealed that if assessments for 1958 had been based upon sales rather than production, the assessment figures would have been altered less than 2% from the regular assessment figures. It was the consensus of opinion that no change in the method of determining assessments should be suggested at this time but that the subject should be studied by each member company on the basis of this most recent report and if changes are suggested, they be submitted at the next meeting for further consideration by this body.

4. The next portion of the meeting was devoted to the consideration of matters of old business.

- 1) During the past quarter the Museum of Science and Industry, Chicago, Illinois, accepted our new exhibit for showing for a period of one year. In concluding this arrangement it was necessary that the Institute agree to pay the Museum a fee of \$500.00 to cover upkeep and repairs on the display while in this location. It was moved by Mr. Bettes, seconded by Mr. Widmayer and unanimously agreed that the Museum be paid \$500.00 to cover the maintenance expense on the new exhibit for one year.

- 2) During recent months the Institute, through Dr. Maier and the Nuclear Radiation Testing Committee, has had certain tests conducted at Oak Ridge and a partial report on this work has been received. An invoice covering these tests has also been received, however, Dr. Maier has suggested that payment should be withheld until the complete report has been received. The budget includes an account in the amount of \$2,000.00 to cover this expenditure and upon authorization of Dr. Maier, approved by the President of the Institute, the invoice, properly executed, will be paid.

- 3) The Seal of Quality program has been set in motion. Certain publicity releases have been issued and the seals for both the packages and the letter-heads have been ordered and should be in the hands of the member companies by October 20, 1958. The Secretary will maintain a stock of each size label for distribution, at cost, to the member companies. The initial order amounts to 48,000 labels in each of the two sizes. It was agreed that as this supply fell below 10,000, a new order of 48,000 should be placed so that orders from members might be supplied immediately upon receipt.

5. Under the subject of new business, there were considerations of applications for membership. There have been no formal requests, however, inquiries have been received from National Asbestos Mines, Lake Asbestos of Quebec and The Ruberoid Company. Each of these inquiries will be considered on the basis of eligibility however, until a formal request is received no action is indicated.

6. The final action taken at this meeting concerned the selection of the date and place of meeting for the annual meeting for 1959. Following a discussion of this subject it was agreed that the annual meeting for 1959 should be held on September 10 and 11 at the Essex House in New York City providing suitable arrangements for meeting accommodations and individual room reservations can be made.

7. There being no further business to come before this session, it was moved by Mr. Widmayer, seconded by Mr. Griffis and unanimously agreed that the meeting be adjourned.

Myril C. Shaw,
Secretary

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The Technical Committee held its Third Quarter Meeting on September 11, 1958 at the Hotel Commodore, New York City.

IN ATTENDANCE

JOHNS-MANVILLE, CORP.

E. Beale, Chairman
J. L. Tucker

PHILADELPHIA TEXTILE INSTITUTE

Dr. M. C. Shaw

RAYBESTOS-MANHATTAN, INC.

Dr. M. S. Maier
M. W. Oliver

AMERICAN ASBESTOS TEXTILE CORP.

E. C. Cutler

SOUTHERN ASBESTOS CO.

None

KEASBEY & MATTISON COMPANY

D. F. Quealy

Since all members had received a copy of the minutes of the previous meeting, it was moved by M. W. Oliver, seconded by J. L. Tucker, that the reading of the minutes be dispensed with at this time.

Reports of Sub-Committee were as follows:

Nomenclature Committee.

The original list on nomenclature was issued in October of 1956. All members of the Technical Committee were requested to review this list for corrections and additions. These comments are to be sent in to J. L. Tucker by 10/15/58. Mr. Tucker will then revise the nomenclature list and issue it in its up to date form.

Tape Committee.

This discussion was led by D. F. Quealy and each specification was discussed in regards to tensile strengths, construction and feet per pound. The following proposals were made:

Specification for Industrial Tapes.

It was the opinion that consideration be given to changing feet per pound values to minimum values rather than average values as now shown. This particular point was to be considered by all member companies during the next quarter. The following values were proposed for minimum:

<u>Thickness</u>	<u>Recommended Min. Ft./lb.</u>	<u>Current Spec. Ft./lb.</u>
1/32"	60	60
1/16	32	40
1/8	13	16
3/16	10	12
1/4	7.5	8

Specification for Electrical Tapes.

A proposal was made to give consideration to changing yards per pound values to minimums rather than average values as now shown.

It was proposed to show tensile strength values as pounds per inch of width.

The Chairman of the Tape Committee, during the next quarter, is to

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MT-003817

review the data submitted at this meeting and will send each member of the Technical Committee a resume with corrected values for tensile strength, feet per pound and total ends. This information will be reviewed by each member and returned to the chairman for correlation and determining satisfactory values. ATT-106

It was agreed that because the tensile strengths of Industrial Tapes are very high, no particular advantage would be gained by going into a lengthy determination of tensile strength values at this time.

Each member of the Technical Committee is to review the above proposals and have their recommendations ready for the next meeting.

Nuclear Radiation Committee.

Dr. Maier stated that a report had been received from Oak Ridge on the first phase of this committee's project. Copies of this report are attached. Dr. Maier also stated that this report is a preliminary report and does not give complete information. The authorities at Oak Ridge will be contacted and more complete information will be requested.

No progress has been reported by Oak Ridge on the second phase (long term test) of this project. The committee will follow Oak Ridge for progress.

Respectfully submitted,

Edward Beale, Chairman
Technical Committee

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MS 004412

MT-003818

MINUTES of the General Meeting
of the Asbestos Textile Institute
held September 12, 1958 at the
Commodore Hotel, New York, N. Y.

IN ATTENDANCE:

J. A. Bettles, President
RAYBESTOS-MANHATTAN, INC.

AMERICAN ASBESTOS TEXTILE CORP.

Mike Scanlan
J. W. Weber

JOHNS-MANVILLE CORP.

W. C. Atkinson
Edw. Beale
Mr. Hendry
L. R. Hoff
W. S. Hough
J. A. O'Brien
E. A. Schuman
C. C. Simoni
U. D. Torrance
J. L. Tucker

KEASBEY & MATTISON CO.

C. R. Hutchcroft
A. E. May
D. F. Queally
A. E. Whitfield
D. W. Widmayer

RAYBESTOS-MANHATTAN, INC.

J. A. Brown, Jr.
A. F. Heinsohn
M. S. Maier
M. W. Oliver
J. F. D. Rohrbach
R. B. Smith
S. R. Zimmerman, Jr.

SOUTHERN ASBESTOS CO.

J. T. Griffis
G. J. Harris
W. E. Hill
J. D. McCluer
J. L. Mitchell

TALLMAN-McCLUSKEY FABRICS CO.

A. R. Byrnes
T. C. McCluskey
R. S. Tallman

ASBESTOS CORPORATION, LTD.

Paul LeClerc

BELL ASBESTOS MINES, LTD.

H. A. Smith
F. Parker Smith

CASSIAR ASBESTOS CORPORATION, LTD.

J. D. Christian
T. T. Tigert

JOHNSON'S COMPANY, LTD.

Carl Bindman

CADWALADER WICKERSHAM & TAFT

M. I. Ruddock

ASBESTOS TEXTILE INSTITUTE

M. C. Shaw

Guests:

C. H. Carlough, Carolina Asbestos Company
W. R. Whitner and Mr. Farrel, Lake Asbestos of Quebec
W. G. Neel, Ruberoid Company

1. The meeting was called to order by President Bettles and an address of welcome extended to all of those in attendance. Following the opening remarks, each person in attendance was asked to stand in his place, introduce himself and give his company affiliation.
2. The meeting was opened with the presentation of the minutes of the last meeting for reading however, since all members had received copies and were

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MT-003819

familiar with those transactions it was moved by Mr. Widmayer, seconded by Mr. Griffis and unanimously agreed that the reading be dispensed with at this time.

3. The Treasurer's Report was presented for consideration by T. C. McCluskey, Treasurer. Following consideration of this report, it was moved by Mr. Brown, seconded by Mr. Whitfield and unanimously agreed that the report be accepted and entered as a part of the minutes of this meeting.
4. Legal Counsel, M. I. Ruddock, was next called upon to address the group with remarks significant for the occasion. Mr. Ruddock reviewed the various activities of the Association: Fiber Testing, Radiation Properties Testing, Sales Promotion (both Seal of Quality and Display Exhibit), Improved Government Specifications, Fundamental & Practical Research and the Combatting of False Advertising by Competing Products. He pointed out the propriety of these activities under the Anti-Trust laws and emphasized that they constituted a splendid example of what members of an industry, large and small, can legally accomplish through a trade association that they could not do individually.
5. The next segment of the meeting was devoted to reports covering the committee activities for the past year, delivered by the Chairmen of the several active committees.

a) Mr. A. E. May, Chairman of the Air Hygiene and Manufacturing Committee discussed the many projects and considerations of interest to this group and summarized the undertakings and accomplishments that have been achieved during the past year. The complete report of this committee is attached as a part of the minutes of this meeting.

b) Mr. C. R. Hutchcroft, Chairman of the Fiber Testing Committee was next called upon to present the work of this committee. It was pointed out that this committee has just recently been organized and that the meeting held on September 10th was only the second meeting of this group, therefore, there could not possibly be any statements regarding accomplishments to date except perhaps to note the fact that the committee, under a directive by the Board of Governors, has been established and that a program has been adopted which is designed to carry out the mandate of the Board of Governors.

In order that the work of this committee might be carried out with maximum effectiveness, Mr. Hutchcroft asked that, through action taken in this meeting, this committee be authorized to seek the assistance of the Quebec Asbestos Miners Association and the Asbestos Cement Products Association in carrying out the program to be undertaken and that the efforts of all three groups be coordinated in these endeavors. In response to this request by Mr. Hutchcroft the following resolution was drafted by the legal counsel and unanimously adopted.

"Resolved, it is the sense of this meeting that full cooperation between the Fiber Testing Committee of A.T.I. and the comparable committees of Q.A.M.A. and A.C.P.A. is highly desirable and that the Fiber Testing Committee is authorized and encouraged to develop whatever methods of liaison between it and the committees of the other two associations which it feels to be most effective."

The formal report by this committee is attached as a part of the minutes of this meeting.

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c) The Sales Promotion Committee Report was delivered by Chairman J. A. Brown, Jr., who presented a review of the progress and accomplishments achieved in carrying out the program of activities of this committee. The formal report as presented is attached as a part of the minutes of this meeting.

d) The next report presented as a part of the Sales Promotion Committee activity covered the accomplishments of a special committee appointed to investigate the Buy American Act clause as it has reference to General Stores Supply Office bids for asbestos textile materials. Mr. Whitfield served as chairman of this committee and was assisted by Mr. A. J. Scanlan and Dr. Shaw. It was reported that the committee met with Mr. Jokogian, G. S. S. O. Supervisory Purchasing Agent on June 16th and at that time reviewed the pertinent facts related to the problems involved. In concluding this effort steps are now being taken to have asbestos spinning fibre officially included on the list of commodities exempted from the Buy American Act.

e) The Fiber Committee report was presented by Mr. Carl Bindman in the absence of Mr. Marcotte and he reported that the spinning fiber supplies far exceed the demand and further, that with the several new mines now being opened it does not appear that the supply picture would offer any problems within the foreseeable future. Mr. Bindman also reported upon his recent trip around the world and presented an interesting account of economic and living conditions at various points along his route. The membership was gratefully appreciative of the remarks by Mr. Bindman.

f) The Technical Committee report presented by Chairman Edw. Beale served to review the many projects that have been and currently are under consideration and study by this committee and the accomplishments of the several task groups concerned with cloth, tape and braid specifications were reported. The formal report as presented is attached as a part of the minutes of this meeting.

g) Dr. M. S. Maier, Chairman of the Nuclear Radiation Committee, was next called upon to report regarding the activities of that committee as a task group within the Technical Committee. Dr. Maier reported that samples of four asbestiform minerals had been subjected to nuclear radiation and tested at the Oak Ridge National Laboratories, however, the full report covering the results of these tests was not yet available. Dr. Maier reviewed the contents of a partial report, however, advised that specific information and conclusions would not be available until a thorough study of the full report can be made. The report as offered by Dr. Maier is attached as a part of the minutes of this meeting.

h) The final report was presented by Dr. M. C. Shaw and covered the activities of the Fellowship. During the past year efforts have been exerted by the Fellow to extend the elevated temperature serviceability properties of asbestos textiles and the work here reported covers one approach to this problem. A new material called "Cerbestos" was introduced and a considerable amount of interest in this development was evidenced by the membership. The formal report is attached as a part of the minutes of this meeting.

In concluding this portion of the meeting devoted to committee reports, President Bettes expressed his appreciation of the efforts exerted by each of the committee chairman and the committee members during his two-year term of office, acknowledging the fact that it is the activities of these groups that make the Institute the useful organization it is today.

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6. Under subjects of old business the following activities were considered.

a) It was reported that by action of the Sales Promotion Committee, approved by the Board of Governors, the new Asbestos Textile Institute exhibit has been placed in the Museum of Science and Industry, Chicago, Ill. for a period of one year.

b) The Seal of Quality program has been initiated as covered by Mr. Brown in the Sales Promotion Committee Report. In this endeavor, the Board of Governors authorized the Secretary to maintain a stock of these labels at his headquarters for distribution to the members and that such stock supply should be replenished when it is reduced to a quantity less than 10,000 labels of each of the two sizes. It has been established that orders in amounts of 48,000 are obtained at the most favorable price.

7. Under subjects of new business it was announced that two asbestos fiber producing companies had expressed an interest in becoming members of the Institute, however, no formal application has been received by the President, therefore, consideration in this regard could not be undertaken. Representatives of one of the interested companies were in attendance as guests at this meeting and they were invited to submit an application for membership for consideration by the Board of Governors at the next meeting.

8. This being the Annual meeting for 1958, at which time, by authority of the Constitution of the Institute, there is to be held each year an election of members to serve on the Board of Governors and officers to serve the Institute, President Bettles at this time called for such elections to be held. The nominating committee under the chairmanship of D. W. Widmayer was asked to present the nominations for members of the Board of Governors and the following were named:

American Asbestos Textile Corp. -- A. J. Scanlan
 Johns-Manville Corp. -- W. S. Hough
 Keasbey & Mattison Co. -- D. W. Widmayer
 Raybestos-Manhattan, Inc. -- J. A. Bettles
 Southern Asbestos Co. -- J. T. Griffis
 Tallman-McCluskey Fabrics Co. -- T. C. McCluskey

These nominations were unanimously approved and elected to serve as members of the Board of Governors for the ensuing year.

Following these elections the Board of Governors organized and elected the following officers to serve the Institute for the ensuing year.

President -- J. T. Griffis
 Vice-President -- A. J. Scanlan
 Treasurer -- W. S. Hough
 Secretary & Ass't Treas. -- M. C. Shaw

9. Upon conclusion of the elections, President Bettles addressed remarks of the retiring President to the meeting expressing his appreciation to the many officers and members who served with him during his tenure of office. The complete text of these remarks follows:

"Gentlemen, you are all well aware that I am no great shakes as a speaker. I have, therefore, written a few thoughts I would like to present on this occasion. If some of you fellows don't like the things I am going to

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say, you can wash it down with Martinis and Manhattans immediately upon the conclusion of my remarks.

In all seriousness, gentlemen, I want you to know I am am appreciative of the honor you bestowed on me two years ago when you elected me President of our Industry Trade Association. I am all the more appreciative because I am the first president of A.T.I. who was not either president or vice-president of the company he represented at the time of his election. Nevertheless, this is not a good situation. If the Asbestos Textile Institute is to continue to make the greatest possible contribution to the welfare and advancement of the industry, our Board of Governors and our officers should be senior officers of their respective companies.

You fellows handed me this job at a time when the industry was undergoing a critical period of readjustment. The past two years, and particularly the last eighteen months, have been as stormy a period as the asbestos textile industry has had to weather since the bitter days of the 1929-1931 depression. For the past twelve months, the demand for our products fell far below our combined productive capacity, and the current recession accentuated the problem.

The fact that our industry association has been able to grow in service to the trade, even during these difficult times, is a great tribute to our several committee chairmen. The A.T.I. Committees are the backbone of the association. I want to take this opportunity to express my sincere appreciation to the chairmen of the several committees who held office during my administration. These men deserve your thanks and appreciation. I would like to name them, first the 1957 chairman and then the 1958 chairman. I am going to ask each man to stand when I call his name and remain standing until all chairmen have been acknowledged.

<u>1957</u>	<u>1958</u>
Air Hygiene & Manufacturing Committee	Committee
-----	A. E. May
Technical Committee	
Marion Oliver	Edward Beale
Sub-Committee on Nuclear Radiation	
None	Dr. Martin Maier
Sales Promotion Committee	
Andy Whitfield	Jack Brown
Fiber Committee	
(Inactive)	Denny Marcotte
Fiber Evaluation Committee	
None	Clyde Hutchcroft

Gentlemen, these are the men who have carried forward the work of our Asbestos Textile Institute. I believe they deserve your approbation.

There is one facet of my administration that has been a very great disappointment to me. I had hoped during these past two years to convince the several members of the industry who are not now members of A.T.I. that it

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would be to their advantage to join or re-join our association. A.T.I. can never wholly accomplish the goals it was intended to achieve unless it is represented by the entire manufacturing industry. Despite this very real handicap, A.T.I. has grown to be a most important part of our business. It has grown to be a clearing house for industry ideas and problems. The membership includes most all of the free world's important sources of asbestos spinning fiber, and a great majority of the world's asbestos textile manufacturers.

Our association is now in its fourteenth year. For the past twelve of these years, Dr. Myril C. Shaw has directed both the technical and business affairs of our association in a capable and conscientious fashion. I think it would be in order to give Dr. Shaw a hand for the job he has done as Executive Secretary of A.T.I. this past year.

Our Asbestos Textile institute is unlike some other trade associations I can think of in that it is not a do-nothing association. Our esteemed legal counsel tells us that on the contrary A.T.I. is one of the most fruitful trade associations he knows of. These are kind words coming from the lips of a qualified expert. Malcolm Ruddock currently guides the efforts of eight national trade associations. Mr. Ruddock's standing as an authority on his subject has been recognized by the American Bar Association when they elected him chairman of the Committee on Trade Associations of its Section of Anti-Trust Law. When Mr. Ruddock stands to give his quarterly message to A.T.I., we all have the comfortable feeling that we are listening to the advice of a recognized authority. Malcolm Ruddock has been most faithful in his attendance at each and every meeting of our Board of Governors, and of our General meetings during the past two years of my administration. He has always been right on the job to keep me on the track during our quarterly meetings. I would like to hear a round of appreciation for our faithful and very able legal counsel.

Well, gentlemen, that about winds up my remarks for this session. I am pleased to be able to place my responsibilities in the very experienced hands of Jesse Griffis. I want to assure all of you, and I have promised Jesse Griffis, that I will be very much on the job to help him in the performance of his duties. I will strive to be as staunch a supporter for Jesse as he has been to me during these past two hectic years."

10. There being no further business to come before this session, it was moved by Mr. Griffis, seconded by Mr. Hough and unanimously agreed that the meeting be adjourned for luncheon.

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11. Following the luncheon, many of the guests and visiting officials of member companies were called upon to address the group. Those who spoke were:

Mr. J. A. O'Brien, Johns-Manville Corp.
 Mr. C. C. Simoni, Johns-Manville Corp.
 Mr. W. E. Hill, Thermoid Company
 Mr. A. F. Heinsohn, Raybestos-Manhattan, Inc.
 Mr. J. T. Griffis, Southern Asbestos Company
 Mr. C. H. Carlough, Carolina Asbestos Company
 Mr. S. R. Zimmerman, Raybestos-Manhattan, Inc.
 Mr. H. A. Smith, Bell Asbestos Mines
 Mr. J. F. D. Rohrbach, Raybestos-Manhattan, Inc.
 Mr. R. S. Tallman, Tallman-McCluskey Fabrics Co.

Following the addresses, the meeting adjourned.

Myril C. Shaw,
 Secretary

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ASBESTOSIS RESEARCH COUNCILSECOND ANNUAL REPORT FOR THE TWELVE MONTHS
BEGINNING 1ST OCTOBER, 19581. INTRODUCTION

The Asbestosis Research Council was established on the 1st October, 1957. This report details the activities sponsored by the Council during the second year of its operation.

2. APPLICATIONS FOR MEMBERSHIP

There have been no applications.

3. COMMITTEES

The work of the Council has continued under the guidance of the Management Committee and the Research Committee. The membership of these Committees during the year was -

(a) Management Committee

Chairman:	Sir William Fenton	British Belting & Asbestos Ltd.
	Mr. R. Barber	" " " " "
	Mr. T. C. Hale	Cape Asbestos Co., Ltd.
	Mr. A. A. Cross	" " " " "
	Mr. N. A. Morling	Turner Brothers Asbestos Co. Ltd.
	Mr. J. Waddell	" " " " "
Secretary:	Mr. D. W. Hills	" " " " "
Followed by	Dr. S. Holmes	" " " " "

The Management Committee met in London on 29th October, 1958.

(b) Research Committee

Chairman:	Dr. J. F. Knox	Turner Brothers Asbestos Co. Ltd.
	Dr. C. G. Addingley	British Belting & Asbestos Ltd.
	Dr. W. H. A. Beverley	" " " " "
	Dr. R. Gaze	Cape Asbestos Co. Ltd.
	Dr. W. J. Smither	" " " " "
	Mr. E. L. Dawson	Turner Brothers Asbestos Co. Ltd.
Secretary:	Mr. D. W. Hills	" " " " "
Followed by	Dr. S. Holmes	" " " " "

Executive Member: Dr. J. F. Knox

The Research Committee met four times; at Cambridge on 15th December, 1958 and 28th September, 1959, at Reading on 13th April, 1959, and in London on 29th June, 1959.

Continued

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4. FINANCE(a) Banking Arrangements

The finances of the Council have continued to be administered through an account operated by the Rochdale branch of the District Bank.

(b) Research Committee Budget and Expenditure

Research Budget	£5000.	-s.	-d.
Research Expenditure	£4154.	19s.	2d.

It should be noted that the sum of £350. -s. -d. was set aside for a microscope for the Council's work at Cambridge. This has been ordered and delivery is expected shortly. Further, the sum of £500. -s. -d. voted for work on "The Physics of Asbestos Dust Clouds" has not been drawn upon.

Full details of the Council's Income and Expenditure are given in Appendix 1.

5. LIAISON WITH THE FACTORY DEPARTMENT AND THE AIR HYGIENE COMMITTEE

In accordance with Management Committee Minute No. 16(d), edited versions of the First Annual Report were forwarded to the Factory Department and to the Air Hygiene Committee (U.S.A.). One of the member Companies of the latter committee has since shown interest in the Ottway Dust Sampler and details have been forwarded.

6. RESEARCH PROGRESS

The research work of the Council has continued under the direction of Dr. P. F. Holt at Reading and Dr. J. Beattie at Cambridge. Brief summaries of this work are given below. Full reports appear in Appendices 2 & 3.

(a) Work at Reading

During the year the work has been transferred to a new laboratory and animal house. This has inevitably resulted in some dislocation, but the new facilities are far superior to the old.

The apparatus for maintaining an asbestos dust cloud has been developed to the stage when it will maintain a dust cloud of a fairly steady concentration automatically. Conditions can be varied to produce a completely fibrous or completely non-fibrous dust cloud as required.

The animal experiments have been delayed pending the development of the dust machine to a satisfactory stage. These experiments are now in progress.

In order to measure the total dust exposure during animal experiments, work has been directed towards the development of a satisfactory mass sampler, based on a volatile filter. For snap sampling, a photoelectric monitor has been obtained, and efforts are being made to increase its sensitivity.

Continued

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(b) Work at Cambridge

Data on the mineral content and particle size distribution in lung material from 50 cases of exposure to asbestos dust at Rochdale has been collected together in the form of a report. Work is also proceeding to ascertain whether non-fibrous dust plays any part in the genesis of asbestosis.

Chromatographic examination of asbestosis body material has suggested strongly that the protein envelope consists of collagen. The pattern of laying down of the protein is now to be considered as this will give information of the mechanism of rupture of the envelope prior to the fracture of the fibre.

Experiments on the injection of asbestosis bodies into the brains of animals have continued. It has been shown that sterile chrysotile fibres can result in the formation of asbestosis bodies within six months and that mature but unsegmented bodies do not product any marked effects. The results on the injection of fragmented bodies are so far inconclusive. The work continues and has been extended to amosite and crocidolite fibres.

7. DUST SAMPLING AND ANALYSIS

Continued experience of the Ottway instrument has shown that the dust count obtained in a steady concentration is dependent upon the sampling time. Evidence of this has been obtained by all three Member Companies but users of the instrument who are interested in non-fibrous dusts have not experienced this difficulty. No simple reason for the phenomenon has been discovered and it is likely that the matter will not be resolved until more is known on the physics of asbestos dust clouds.

Work on mass sampling by membrane filters has commenced.

8. RESEARCH COMMITTEE'S COMMENTS

The Research Committee feels that good progress has been made during the year, but the rate of progress has been hampered by limitations of manpower. Approval has already been given for the provision of extra assistance for Dr. Holt at Reading and the new arrangements will come into force on 1st October, 1959. It is felt that in addition to expediting Dr. Holt's programme of work, this appointment will enable a start to be made on investigating the physics of asbestos dust clouds. Further proposals for expansion of the Council's Research Programme are under consideration.

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BUDGET COMMITTEE REPORT

The Budget Committee of the Asbestos Textile Institute met at the Warwick Hotel on November 24, 1958.

In attendance were:

W. S. Hough, Chairman
J. A. Bettes
D. W. Widmayer
J. T. Griffis
M. C. Shaw, Secretary

Prior to this meeting the Assistant Treasurer prepared a report covering a review of the expenditures for 1958 to November 1, and an analysis of the current financial status of the Institute. The discussions pursued by the committee were based upon this report.

Following these discussions the following budget for 1959 was drafted for presentation at the meeting of the Institute to be held on December 12.

General Fund

Secretary's Salary	\$ 3,050.00
Secretary's Travel	500.00
Office Expense	1,500.00
Legal Expense	2,000.00
Legal Travel	150.00
Audit Expense	325.00
Meeting Expense	2,000.00
Nuclear Studies	600.00
New Exhibit Expense	750.00
Incidentals	250.00
	\$ 11,125.00

Fellowship Fund

Fellowship Salary	\$ 9,725.00
Fellowship Grant	3,000.00
Lab. Assistance	500.00
Lab. Expense	300.00
	\$ 13,525.00

TOTAL	<u>\$24,650.00</u>
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Respectfully submitted,

Myril C. Shaw,
Secretary
ASBESTOS TEXTILE INSTITUTE

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ASBESTOS TEXTILE INSTITUTE

Treasurer's Report

December 8, 1958

Balance in Various Funds - September 8, 1958:

Fellowship Fund	\$ 11,464.73	
General Fund	5,842.53	
Petty Cash Fund	<u>58.08</u>	\$ 17,365.34

Receipts:

General Fund (Handbook and Seal Sales)	\$ 80.65	\$ 80.65
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Transfers:

To Petty Cash From General Fund	\$ 248.87	
To General Fund From Fellowship Fund	<u>162.21</u>	\$ <u>411.08</u>
		\$ 17,857.07

Disbursements:Fellowship Fund:

Fellowship Salary	\$ 2,400.00	
Lab. Expense	7.00	
Transfer to Gen. Fund (1)	114.50	
Transfer to General Fund (2)	<u>47.71</u>	\$ 2,569.21

General Fund:

Secretary's Salary	\$ 750.00	
Secretary's Travel	132.86	
Meeting Expense	768.50	
Auditing Expense	303.00	
Legal Expense	500.00	
Stenographic Expense	135.00	
Misc. Office Expense	136.17	
New Exhibit Expense	258.59	
Seal of Membership Expense	482.77	
Nuclear Radiation Program	1,000.00	
Petty Cash Transfer	<u>248.87</u>	\$ 4,715.76

Petty Cash Fund:

Total Disbursement	\$ 262.00	\$ 262.00	\$ <u>7,546.97</u>
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Balance on Hand - December 8, 1958.....	\$ 10,310.10
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Balance in Various Funds - December 8, 1958:

Fellowship Fund	\$ 8,895.52	
General Fund	1,369.63	
Petty Cash Fund	<u>44.95</u>	\$ <u>10,310.10</u>

Respectfully submitted

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W. S. Hough

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Ambler, Pa.
December 9, 1958

Mr. W. S. Hough, Treasurer
Asbestos Textile Institute

Dear Mr. Hough:

In compliance with your request, examination was made of the books and records of the Asbestos Textile Institute under Dr. M. C. Shaw's supervision on Monday, December 8, 1958. The audit covers the period from September 9, 1958 to December 8, 1958, inclusive.

The Balance Sheet of the Asbestos Textile Institute at December 8, 1958 is set forth below:

ASSETS

Total Cash in Bank (Schedule A)	\$10,265.15
Total Cash on Hand	44.95
Postage on Hand	4.00
*Furniture & Equipment (nominal value)	1.00
	<u>\$10,315.10</u>

LIABILITIES

Philadelphia Wage Tax	\$ 32.84
Net Worth	<u>10,282.26</u>
	<u>\$10,315.10</u>

* Other Asset items not included in above classification are shown in Schedule B.

The latest statement received from the depository (Chase-Manhattan Bank of New York), in which all funds of the Institute are kept, shows a balance of \$11,822.21 on November 28, 1958. The Petty Cash Fund totalling \$100.00 includes \$44.95 in cash and \$55.05 in vouchers. This fund was verified by actual count.

Schedule A: Showing a reconciliation of the Bank Balance at December 8, 1958:

Bank Balance per Latest Statement, November 28, 1958	\$11,822.21
Add: Bank Deposit of December 4, 1958	80.65
	<u>\$11,902.86</u>

Less: Checks Drawn Subsequent to November 28, 1958

<u>Check No.</u>	<u>Date</u>	<u>Payee</u>		
1383	11/28/58	M. C. Shaw	\$921.46	
1384	11/28/58	First Pennsylvania Bank	157.10	
1385	12/4/58	A. Pomerantz	23.07	
1386	12/4/58	Cadwalader	500.00	
1387	12/5/58	Hotel Warwick	<u>36.08</u>	<u>\$ 1,637.71</u>

BALANCE ON HAND IN BANK, December 8, 1958 \$10,265.15

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Checks numbered 1353 to 1355 inclusive, outstanding at the last audit, were examined and found to be in order. Bank deposits during this period under audit totalled \$80.65. This amount was credited to the General Fund.

A reimbursement transfer in the amount of \$248.87 was made from the General Fund to the Petty Cash Fund. Also, a transfer of \$162.21 was made from the Fellowship Fund to the General Fund for Lab. assistance and Lab. expense.

Schedule B: Other Assets of Asbestos Textile Institute:

<u>Item</u>	<u>Quantity</u>	<u>Description</u>	<u>Date Acquired</u>	<u>Purchase Cost</u>
(a)	7	Visual Aid Display Cases	January 1950	\$ 3,414.32
(b)	1	Suter Tensile Tester	August 1947	726.00
(c)	1	Heat Aging Furnace	April 1951	849.98
(d)	1	Bausch & Lomb Micro-Projector	May 1954	94.00
(e)	1	Brabender Moisture Tester	September 1954	765.00
(f)	1	Federal Thickness Gage	January 1947	50.50
(g)	1	Mapes Magnetic Analyzer	April 1953	100.00
(h)	1	Scott Twist Tester	December 1947	126.50
(j)		Office Furniture & Equipment	September 1954	757.50
(k)	1	Temco Muffleoven & Control	October 1954	161.00
(l)	1	Cenco Balance	October 1954	32.25
(m)	1	Electric Stopclock	October 1954	50.00
(n)	1	Abradoflex	January 1956	1,175.00
(o)	1	Exhibit - 4 sections	March 1957	5,000.00
				<u>\$13,302.05</u>

Yours very truly,

S. C. Gehman, Auditor

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Report of the Sales Promotion Committee meeting held December 11, 1958.

1. Seal of Membership Program - Dr. Shaw purchased 49,600 of the large and small Seal of Membership seals and has sold 27,000 large and 22,000 small to the members to date.
2. We have sent the news releases to 165 publications which we thought would be interested in this release, and have found that two publications have used this information.-- Safety Maintenance and Production, November, 1958 and Textile Industries, November, 1958.

Also, although "Asbestos Magazine" used the body of the message they did not reproduce the picture of the Seal and it was recommended that Dr. Shaw might ask them if they could do this at some future date.

3. Insofar as associate members are concerned, Dr. Shaw will send samples and prices to the associate members and it was agreed that we would supply the small seals for them to use on their letterheads.
4. The new Asbestos Textile Institute exhibit is now in the Museum of Science and Industry in Chicago and Dr. Shaw at the request of the Sales Promotion Committee will have a placard made up indicating the names of the member companies which Mr. Arthur Byrnes will have incorporated in the exhibit.
5. The matter of the reprinting of the Asbestos Textile Institute Handbook was discussed in the Sales Promotional Committee Meeting and also taken up with the Board of Governors. Of the 600 copies now on hand, it was agreed that Dr. Shaw could keep these and distribute them to Industry and Colleges, etc. who have been making requests for this Handbook.

Also at the suggestion of the Board of Governors, Dr. Shaw was appointed coordinating chairman of the Sales Promotion and Technical Committees to make suggestions for changes in the present handbook. ASTM will probably completely change their specifications which appear in the present handbook over the period of the next year. By that time we should have sufficient suggestions from our two committees, representatives of which will meet with Dr. Shaw to make recommendations for either changes in material in the handbook or suggested new material.

Mr. Andrew Whitfield of Keasbey & Mattison was then called on to present the information in a letter for Mr. J. J. Phelan, Jr. on the decision of the Asper Committee.

Respectfully submitted,

John A. Brown, Jr.

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The Technical Committee held its fourth Quarter Meeting on December 11, 1958 at the Warwick Hotel, Philadelphia, Pa.

IN ATTENDANCE

JOHNS-MANVILLE CORP.
E. Beale, Chairman
J. L. Tucker

RAYBESTOS-MANHATTAN, INC.
M. W. Oliver

KEASBEY & MATTISON COMPANY
D. F. Quealy

PHILADELPHIA TEXTILE INSTITUTE
Dr. N. C. Shaw

AMERICAN ASBESTOS TEXTILE CORP.
E. C. Cutler

SOUTHERN ASBESTOS COMPANY
None

Since all members had received a copy of the minutes of the previous meeting, it was moved by J. L. Tucker, seconded by D. F. Quealy, that the reading of the minutes be dispensed with at this time.

Reports of Sub-Committee were as follows:

Nomenclature Committee.

The present list covering nomenclature and definitions has been rewritten and expanded and now covers 74 definitions. These items were reviewed by all members present and it is the recommendation of the Technical Committee that this list be reviewed by all members. Any suggestions on additions, corrections, or deletions, should be forwarded to your Technical Committee Representative.

It is the recommendation of the Technical Committee that this list be made a part of the Textile Handbook in the next edition.

Government Specifications.

M. W. Oliver reported that the Government has issued a Proposed Revision to Specification MIL-C-4117. This revision is dated 11/18/58. Each member company will obtain copies of this proposed revision and submit their comments, corrections and additions, to Dr. Shaw who will review the proposed changes at the next quarter meeting.

For those who may wish to get copies of this latest revision, they may be secured from the:

Ordinance Materials Research Office
Watertown Arsenal
Watertown 12, Mass.

A.S.T.M. Activities.

It was reported that the ASTM Committee had agreed to delete the total iron requirements from their specifications. It was further agreed by ASTM that their specifications would show only a Magnetic Rating requirement.

At the last meeting of ASTM, the accuracy of the twist contraction figure of 10% was questioned. As a result, a task group was set up to determine a more realistic twist contraction figure. Mr. D. F. Quealy was appointed chairman of this group. In connection with this work, it was decided that

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the ATI Technical Group would also pursue this same line of investigation. As a start, each member of the Technical Committee is to run twist contractions and submit results to Mr. Quealy for correlation. It was decided to start with the following program:

1. All tests will be made on Underwriters' Grade Yarn.
2. Yarns tested will be 2 ply in 8 cut, 10 cut, 14 cut, and 24 cut.
3. Yarns tested will be regular twist.
4. Test samples will be 10" in length.
5. Twist (turns per inch) and elongation data will be sent to Mr. Quealy.
6. General Procedure:
 - A. Place 10 in. length of plied yarn in jaws of twist counter.
 - B. Untwist the plied yarn (count twist per inch and report).
 - C. Move out the movable jaw; measure increased length.
 - D. Cut one ply.
 - E. Move out the movable jaw again to measure maximum length of original single yarn and report.

Tape Committee.

Final figures on weight, construction, and tensile strengths, were agreed upon. Listed on Page #3 are these values.

Nuclear Radiation Committee.

The chairman of this committee stated that no official report had been received from Oak Ridge as yet, but they would follow them for more complete information.

Respectfully submitted,

Edward Beale, Chairman
Technical Committee

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Minutes: Asbestos Textile Institute
Fiber Testing Committee.
December 11, 1958.

The meeting was held at the Hotel Warwick, Philadelphia, Pa.

Those present:

Committee

C. R. Hutchcroft, Committee Chairman, Keasbey & Mattison Co.
M. S. Maier, Raybestos-Manhattan Inc.
J. D. McCluer, Southern Asbestos Co.
T. C. McCluskey, Tallman-McCluskey Fabrics Co.
I. Barnett, Johns-Manville Corp.

Guests

G. F. Jenkins, Asbestos Corp., Ltd., Representing Q.A.M.A.
P. S. Bettoli, The Ruberoid Co., representing A.C.P.A.
T. T. Tigert, Cassiar Asbestos Corp.
J. A. Malone, Keasbey & Mattison Co.
L. R. Hoff, Johns-Manville Corp. (part-time)
M. C. Shaw, A.T.I. (part-time)

Agenda:

- I. Chairman's Report.
- II. Test Results by Member Companies.
- III. Future Program.
- IV. General.

I. Chairman's Report:

Mr. Hutchcroft reported that the cooperative committee composed of representatives of the fiber testing or technical groups of the A.T.I., A.C.P.A., and Q.A.M.A. is now operative and in full agreement with the program undertaken.

On the matter of sampling procedures which have been proposed by the A.T.I. and A.C.P.A., the only real difference lies in the container to be used for storing the prepared samples for testing. A.T.I. has recommended a clean container of suitable size for each composite sample, and A.C.P.A. limits the container to a clean paper bag. This matter is to be referred to the cooperative committee for agreement since the choice of container is dependent upon the opportunity for the fiber to reach a moisture equilibrium.

II. Test Reports by Member Companies:

A. Quebec Standard Screen Test - Q.A.M.A.

Mr. G. F. Jenkins of Asbestos Corporation, Ltd., reported for the Q.A.M.A.

1. Tests were conducted from 2 minutes to 60 minutes using 0.742- and 0.5-in. top screens on 3 grade fiber.

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2. An end point appeared at approximately 40 minutes, but roping of fibers on top screen was apparent after 5 minutes.
3. There was no improvement in the uniformity of results on the same fiber after the 2 minute test.
4. Since the test value is not to be construed as actual length distribution but a relative distribution by weight of length groups, a test time of 2 minutes (actually 1 minute 50 seconds or one cycle) is just as informative as the 40-minute end point.

Prior to final recommendation, Q.A.M.A will conduct additional tests on 3 grade fiber to determine reproducibility using only the one cycle and two cycle periods and 0.742- and 0.500-in. top screens.

Q.A.M.A. and A.C.P.A. have already agreed upon the one cycle and 0.500-in. top screen for fiber shorter than 3 grade, and this procedure will be included in the proposal for the textile grade fibers.

B. Bauer-McNett Wet Test - Raybestos-Manhattan, Inc.

Dr. M. S. Maier reported the results of this test.

1. Tests were conducted on 3 grade fiber using time periods from 10 to 60 minutes and series of 4-, 8-, 35-, and 100-mesh screens.
2. End point was reached at 20-minute period and this time was recommended for reproducible results on 3 grade fiber.
3. After discussion, it was agreed to accept 14 mesh instead of the 8 mesh and replace the 100 with 200 mesh screen. This would then be 4-, 14-, 35-, 200-Tyler mesh.
4. Raybestos-Manhattan will write the test procedure in ASTM form after resolving a minor discrepancy between Raybestos-Manhattan and Johns-Manville procedures.

C. Suter-Webb Comb - Cassiar Asbestos Corp.

Mr. T. T. Tigert reported on this test after a demonstration of the comb and procedure used by Raybestos-Manhattan was given by Dr. Maier.

1. Both Cassiar and Raybestos-Manhattan use the same type of equipment but reported a difference in the preparation of the bundle of fiber for sorting. Raybestos-Manhattan places the entire 200 mg sample first on one bank of combs and withdraws groups of fibers and places them on the second bank of combs for final sorting according to length groups. Cassiar uses only the first comb in the first bank as a fixed comb and parallels the fibers in each small bundle by drawing both ends of the bundle through this comb prior to placing the fiber on the second bank of combs for final sorting.

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Minutes: A.T.I.

2. Cassiar reported reproducibility results on 3 grades were good on an average but were variable on some fractions of length.
3. Milled or well-opened grades free of crudy and splinty fiber need no prior preparation. Since one splint could easily weigh the entire 200 mg, grades containing crudy stock require preopening.
4. Cassiar will continue to study methods of opening crudy fiber prior to testing on Suter-Webb comb. Mr. Jenkins will supply the samples of crude fiber normally difficult to open.
5. Cassiar and Raybestos-Manhattan will contact Mr. Woodruff of the Canadian Bureau of Mines for assistance in selecting the proper method of opening and combing the fiber samples with least damage prior to the final sorting on the Suter-Webb comb.
6. Cassiar will then prepare complete test method to cover grades of fiber with and without crudy stock.

D. Ro-Tap - Johns-Manville Corp.

Mr. I. Barnett reported the results of tests conducted jointly by their Fiber Division in Canada and the Research Center at Manville on the same bags of 3 grade fiber.

1. Tests were conducted from 10 minutes to 5 hours with 40 minutes as the indicated end point. Since the variation in results between individual samples did not improve beyond the 10-minute period, no advantage would be gained by extending the test to the end point.
2. Recommended conditions for reproducibility were a 50-gram sample run at 10 minutes using screens 0.742 inch, 0.525 inch, 0.371 inch, 3 mesh, 6 mesh, 10 mesh, and pan.
3. Johns-Manville will prepare write-up of test procedure with reference to the recently drafted A.C.P.A. Ro-Tap method for shingle grade fiber for format.

E. Clark Classifier - Keasbey & Mattison Co.

Mr. J. A. Malone reported the test results and recommendations.

1. Grade 3, as well as the more opened longer grades (C & G No.1), ran satisfactorily and results were reproducible.
2. End point in time was indicated at 20 minutes, and this period was recommended for the test.
3. Size of sample to be 5 grams.
4. Since the Bauer-McNett test is limited to 4 mesh screen as largest opening and from 50 to 60 per cent of grade 3 fiber is retained on this screen, it was felt that the Clark Classifier with 1/2, 1/4, 1/8 inch and 30 mesh would provide a better distribution by weight.
5. Keasbey & Mattison will prepare the written procedure of this test in ASTM form covering shingle and textile grades in same specification.

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III. Future Program:

1. For next meeting, the foregoing program will be supplemented by discussions on methods of determining surface area and procedures of air separation for splints and rock. Procedures have already been distributed to members by Raybestos-Manhattan, Cassiar, Johns-Manville, and Keasbey & Mattison.
2. The chairman of the A.T.I. and A.C.P.A. Fiber Testing Committees will meet with the Q.A.M.A. at Thetford Mines on January 13, 1959.

IV. General:

Two questions were raised on the policies of this committee and are herein answered after the chairmen discussed these with the Board of Governors.

1. Q. Of several methods of measuring a specific property, should this committee recommend one test over another? Is this a long-term aim?

A. It is to the general effect that our committee will develop test methods now and as experience in test usage is gained, we may recommend one or more tests for a certain property to be best. It may be implied then that this is a long-term aim of the committee.
2. Q. Has the direction of work of this committee been changed since its inception?

A. No. We are developing testing methods by which each company may evaluate asbestos fiber for textiles as desired.

Respectfully submitted,

Irvin Barnett
Secretary

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MINUTES of the Meeting of the
Board of Governors of the Asbestos
Textile Institute held Dec. 11,
1958 in Philadelphia, Pa.

IN ATTENDANCE:

J. T. Griffis, President
SOUTHERN ASBESTOS COMPANY

AMERICAN ASBESTOS TEXTILE CORP.
J. W. Weber

JOHNS-MANVILLE CORP.
W. S. Hough

KEASBEY & MATTISON CO.
D. W. Widmayer

RAYBESTOS-MANHATTAN, INC.
J. A. Bettes

TALLMAN-McCLUSKEY FABRICS CO.
T. C. McCluskey

CADWALADER, WICKERSHAM & TAFT
M. I. Ruddock

ASBESTOS TEXTILE INSTITUTE
M. C. Shaw

1. The meeting was called to order by President Griffis and all duly elected members of this Board were recognized with the exception of Mr. A. J. Scanlan who was represented by Mr. J. W. Weber. It was announced that Mr. Scanlan had undergone surgery early on this date which accounted for his absence on this occasion.
2. The first subject introduced for consideration was the report covering the activities of the Sales Promotion Committee presented by the Chairman of that committee, J. A. Brown, Jr.

a) It was reported that the Seal of Membership Program had been initiated during the past quarter and all members had been furnished samples of both the large and small seals to be used in this promotion.

The question was raised as to whether or not Associate members should be permitted to participate in this program and it was unanimously agreed that Associate members should be invited and encouraged to participate, using the same seals as the member companies. The Secretary was instructed to advise all Associate members of this action.

Another subject discussed by the Sales Promotion Committee in meeting earlier on this date concerned the reissuance of the Handbook of Asbestos Textiles. It was the consensus of opinion by the Committee that a second printing of the Handbook in its present form would be unwise and that certain revisions and corrections should be affected before the next edition should be printed. In furtherance of this discussion by the Board of Governors it was agreed that the Secretary of the Institute should work with the Sales Promotion Committee and the Technical Committee in revising the Handbook and bringing the material to be presented therein up to date in preparation for a second printing.

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Another activity of this Committee covered in this report concerned the A.T.I. exhibit now being displayed at the Museum of Science and Industry in Chicago. It has been felt by some members of this committee that there should be a card placed somewhere in this exhibit which would identify the members who have contributed to its establishment. The Museum has finally agreed that a placard of small size might be placed therein which would have no advertising but merely list the membership of the Institute. Dr. Shaw was instructed to have such a placard made up.

The final subject covered by Mr. Brown was in reference to an advertisement by Fyrepel Products Inc., which reflects a distortion of the truth regarding the serviceability of asbestos clothing. The Secretary was instructed to write to the offending company and point out the inaccuracies presented.

3. Following the first committee report, the formal segment of the meeting was opened and the minutes of the last meeting were presented for reading. However, since all members had received copies of these minutes and were familiar with the actions there reported, it was moved by Mr. Bettes, seconded by Mr. Hough and unanimously agreed that the minutes be accepted as presented.
4. The Treasurer's report was presented by Treasurer W. S. Hough. Following a discussion of this financial report, it was moved by Mr. Widmayer, seconded by Mr. Bettes and unanimously agreed that the report be approved. The report as presented is attached as a part of the minutes of the General meeting held on December 12.

Also presented by Mr. Hough at this time was the report by the Budget Committee which met on November 24, 1958 for the purpose of drafting a budget to cover the operative expenses for the Institute for 1959. The report as presented is a part of the complete Treasurer's report as attached to the minutes of the General meeting. Following a thorough discussion of this report it was moved by J. A. Bettes, seconded by D. W. Widmayer and unanimously agreed that the following budget for 1959 be approved and the Secretary was directed to so inform Mr. Caruso and to instruct him to proceed to collect the necessary funds on the usual basis of assessments.

General Fund

Secretary's Salary	\$ 3,050.00
Secretary's Travel	500.00
Office Expense	1,500.00
Legal Expense	2,000.00
Legal Travel	150.00
Audit Expense	325.00
Meeting Expense	2,000.00
Nuclear Studies	600.00
New Exhibit Expense	750.00
Incidentals	250.00
	<u>\$ 11,125.00</u>

Fellowship Fund

Fellowship Salary	\$ 9,725.00
Fellowship Grant	3,000.00
Lab. Assistance	500.00
Lab. Expense	300.00
	<u>\$ 13,525.00</u>

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\$ 24,650.00 Total

During the course of the discussions it was pointed out that the Secretary's traveling expense had been increased to \$500.00 in order that he might engage in more direct contacts and consultations with the member companies and so that travel in connection with specification clarification problems might be pursued more vigorously.

Also, agreed upon within this budget was an item for \$600.00 designated for Nuclear studies and authorized for 1) the purchase of a Geiger Counter or Monitor for the determination of the nuclear radiation characteristics of materials that have been irradiated and 2) to cover the necessary traveling expenses for Dr. Maier or Dr. Shaw to Oak Ridge when and if necessary.

Finally, with regard to meeting expenses it was agreed that certain curtailments in these expenditures should be affected, effective with the initiation of the 1959 meeting schedule. It was agreed that the payment for the luncheon of the committee members on the first day of the meeting and the payment for the Board of Governors dinner in the evening of the first day be discontinued. Each member will henceforth bear his own individual expenses on these occasions. The luncheon expense for the General meeting, held on the second day, will however be paid for by the Institute.

5. The next subject presented in this meeting concerned new membership applications. At this time it was reported that Lake Asbestos of Quebec, Ltd. had made formal application for Associate membership and the letter of application was read. Following a discussion of this application it was moved by D. W. Widmayer, seconded by W. S. Hough and unanimously agreed that the application be approved, effective January 1, 1959.

Another prospective member that evidenced interest in membership at the meeting of the Institute held in September 1958 was the Ruberoid Company and the qualifications of this company were considered at this time. It was agreed that President Griffis should contact this company further in an effort to determine their intentions in this regard.

6. Upon concluding the business segment of the meeting, the reports by the committee chairmen were resumed.

Mr. A. E. May, Chairman of the Air Hygiene and Manufacturing Committee reported upon the discussions held by this committee earlier on this date. The formal report as presented is attached as a part of the minutes of the General meeting held on December 12.

The Technical Committee report was presented by Chairman Edward Beale and the activities of this committee as conducted in meeting earlier on this date and also by task groups of this committee during the past several months were reviewed. The formal report as presented is attached as a part of the minutes of the General meeting held on December 12.

The Fiber Testing Committee report was presented by Chairman C. R. Hutchcroft. This committee has enthusiastically engaged upon the program of fiber testing suggested by the Board of Governors at the inception of this committee. The accomplishments to date and the anticipated undertakings were thoroughly reviewed and are set forth in the formal report of this committee, which is attached as a part of the minutes of the General meeting of the Institute held on December 12.

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In discussing the work of this committee it was unanimously agreed that the Asbestos Textile Institute should bear all travel expenses incurred by the Chairman of this committee as he meets with and performs liaison duties for this committee with the Quebec Asbestos Mining Association and the Asbestos Cement Products Association.

7. There being no further business to come before this meeting it was moved by W. S. Hough, seconded by J. A. Bettes and unanimously agreed that the meeting be adjourned.

Myril C. Shaw,
Secretary

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ASBESTOS TEXTILE INSTITUTE

GENERAL MEETING

Hotel Warwick
Philadelphia, Pa.
December 11-12, 1958

Meeting Schedule

Thursday, December 11, 1958:

Technical Committee -- 9:30 A.M. - 5:00 P.M., Suite 319
Air Hygiene Committee - 9:30 A.M. - 5:00 P.M., Suite (to be announced)
Fiber Testing Committee - 9:30 A.M. - 5:00 P.M., Suite 321
Sales Promotion Committee - 9:30 A.M. - 3:00 P.M., Secretary's Suite
Board of Governors - 3:00 P.M., Secretary's Suite

Friday, December 12, 1958:

General Meeting -- 9:30 A.M., Colonial Room

General Meeting Agenda

Call to Order ... 9:30 A.M. J. T. Griffis, President
Minutes of Last Meeting
Treasurer's Report W. S. Hough, Treasurer
Secretary's Report M. C. Shaw, Secretary
Legal Counsel Report M. I. Ruddock
Committee Reports:
 Air Hygiene Committee -- A. E. May, Chairman
 Sales Promotion Committee -- J. A. Brown, Jr., Chairman
 Technical Committee -- Edward Beale, Chairman
 Fiber Testing Committee -- C. R. Hutchcroft, Chairman
 Fellowship Report -- M. C. Shaw, Fellow

Old Business
New Business
Adjournment

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ATI-10



OFFICERS

ATI-106

President J. T. Griffis
 Vice President A. J. Scanlan
 Treasurer W. S. Hough
 Secretary M. C. Shaw

BOARD OF GOVERNORS

J. T. Griffis
 J. A. Bettes
 W. S. Hough
 T. C. McCluskey
 A. J. Scanlan
 D. W. Widmayer

LEGAL COUNSEL

M. I. Ruddock Cadwalader, Wickersham & Taft

COMMITTEES

Air Hygiene & Mfg.

A. E. May, Chairman
 J. E. Cerny
 H. M. Jackson
 J. L. Mitchell
 R. B. Smith
 J. W. Weber

Fiber

J. A. Marcotte, Chairman
 J. D. Christian
 R. E. Cryor
 A. W. G. Gibb
 F. Parker Smith

Technical

Edw. Beale, Chairman
 E. C. Cutler
 M. S. Maier
 J. D. McCluer
 T. C. McCluskey
 M. W. Oliver
 D. F. Queally
 J. L. Tucker

Sales Promotion

J. A. Brown, Jr., Chairman
 J. A. Bettes
 A. R. Byrnes
 G. J. Harris
 W. S. Hough
 A. J. Scanlan
 E. A. Schuman
 A. E. Whitfield

Fiber Testing

C. R. Hutchcroft, Ch.
 I. Barnett
 M. S. Maier
 T. C. McCluskey
 J. L. Mitchell
 J. W. Weber

MEMBERSHIP ROSTER

AMERICAN ASBESTOS TEXTILE CORP.
 Norristown, Pa.
 JOHNS-MANVILLE CORPORATION
 New York 16, N. Y.
 KEASBEY & MATTISON COMPANY
 Ambler, Pa.
 RAYBESTOS-MANHATTAN, INC.
 Manheim, Pa.
 SOUTHERN ASBESTOS COMPANY
 Charlotte 1, N. C.
 TALLMAN-McCLUSKEY FABRICS COMPANY
 St. Louis, Mo.

ASBESTOS CORPORATION, LTD.
 Thetford Mines, Quebec, Canada
 BELL ASBESTOS MINES LTD:
 Thetford Mines, Quebec, Canada
 BRITISH BELTING AND ASBESTOS, LTD.
 Cleckheaton, Yorkshire, England
 THE CAPE ASBESTOS COMPANY, LTD.
 London, W.1, England
 CASSIAR ASBESTOS CORP., LTD.
 Toronto, Canada
 ENGLISH ASBESTOS COMPANY, LTD.
 Brislington, Bristol 4, England
 JOHNSON'S COMPANY, LTD.
 Thetford Mines, Quebec, Canada
 SMALL & PARKES, LTD.
 Manchester 9, England
 SOCIETE ANONYME FRANCAISE DU FERODO
 Paris, France

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MT-003845

MINUTES of the Meeting of the
Asbestos Textile Institute held
December 12, 1958 at the Hotel
Warwick, Philadelphia, Pa.

IN ATTENDANCE:

J. T. Griffis, President
SOUTHERN ASBESTOS COMPANY

AMERICAN ASBESTOS TEXTILE CORP.

M. J. Scanlan

JOHNS-MANVILLE CORP.

W. C. Atkinson

J. Battersby

Edw. Beale

Otto Busch

L. R. Hoff

W. S. Hough

E. A. Schuman

W. C. Seeds

U. Dann Torrance

KEASBEY & MATTISON CO.

C. R. Hutchcroft

A. E. May

D. F. Quealy

A. E. Whitfield

D. W. Widmayer

RAYBESTOS-MANHATTAN, INC.

J. A. Bettes

J. A. Brown, Jr.

M. S. Maier

M. W. Oliver

R. B. Smith

SOUTHERN ASBESTOS CO.

G. J. Harris

J. D. McCluer

J. L. Mitchell

TALLMAN-McCLUSKEY FABRICS CO.

A. R. Byrnes

J. E. Cerny

T. C. McCluskey

ASBESTOS CORPORATION, LTD.

G. F. Jenkins

J. A. Marcotte

BELL ASBESTOS MINES LTD.

F. Parker Smith

CASSIAR ASBESTOS CORP., LTD.

T. T. Tigert

CADWALADER, WICKERSHAM & TAFT

M. I. Ruddock

ASBESTOS TEXTILE INSTITUTE

M. C. Shaw

1. The meeting was called to order by President Griffis and an address of welcome extended to all members and guests in attendance.
2. The President next called for a reading of the minutes of the last meeting of the Institute, however, since all members had received copies of these minutes and were familiar with their contents it was moved by D. W. Widmayer, seconded by W. S. Hough and unanimously agreed that the reading be omitted at this time.
3. The Treasurer's report was presented by Treasurer, W. S. Hough and a copy of this report is attached as a part of the minutes of this meeting. Following a thorough discussion of this report it was moved by Mr. Bettes, seconded by Mr. Widmayer and unanimously agreed that the report be accepted.

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4. The President next introduced the legal counsel, M. I. Ruddock who addressed the meeting relative to the recent decision in the Bethlehem-Youngstown merger case. In the course of the talk he endeavored to enlighten the members assembled as to the meaning and significance of two new descriptive terms -- "Triopoly" and "Oligopoly".
5. The next segment of the meeting was devoted to committee reports and discussions relative to these reports and the activities of the several committees.

a) The first report was presented by A. E. May, Chairman, Air Hygiene and Manufacturing Committee. The activities and considerations of this group are continuing along lines designed to improve manufacturing methods and conditions throughout the industry. Interest by this group in the work of the recently established Fiber Testing Committee of the A.T.I. and of the Asbestosis Research Council of England was expressed. The formal report as presented is attached as a part of the minutes of this meeting.

b) The Sales Promotion Committee report was next presented by Chairman J. A. Brown. This committee has, during the past quarter, directed attention toward a variety of projects including the Seal of Membership Program, Handbook revision, the Buy American Program, etc. The results of these activities are covered in the formal report as presented which is attached as a part of the minutes of this meeting.

c) The Technical Committee report was presented by Chairman Edward Beale. The activities of the several task groups within this committee were reviewed and several recommendations as a result of these endeavors were offered. The committee was also advised regarding certain proposed Federal Specification revisions, particularly with reference to MIL-C-4117 and all were urged to send comments and corrections of the proposals to Dr. Shaw who will compile and coordinate the membership views preparatory to submitting them to the agency concerned.

Also, submitted as a part of the report of this committee were remarks by Dr. M. S. Maier, relative to the status of the nuclear studies being undertaken for the Institute at Oak Ridge, Tenn. It was reported that the final report has not, as yet, been received but that preliminary discussions would seem to indicate that there may be only minute radiation damage to asbestos in its normal state, however, impurities of iron may have some noticeable effects. The final report, when received will be made available to the membership.

The formal report as presented is attached as a part of the minutes of this meeting.

d) The Fiber Testing Committee report was presented by Chairman C. R. Hutchcroft. This committee has now established a cooperative relationship with both the Quebec Asbestos Miners Association and the Asbestos Cement Products Association and it is felt that through this unified effort it will be possible to give the many problems to be encountered by this committee the proper wide range considerations that they should receive. Representation by both of these associations was present at the meeting of this committee held on December 11. The minutes of the December 11 committee meeting as taken by Mr. I Barnett and which were covered by the chairman in his report, are attached as a part of the minutes of this meeting.

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e) The Fiber Committee Chairman, J. A. Marcotte, addressed the meeting and advised that all textile grade fibers were in good supply and that nothing in the foreseeable future would indicate that this condition would change.

6. The next segment of the meeting was devoted to the discussion of matters of new business.

a) It was reported that a formal application for membership on an Associate member basis had been received from Lake Asbestos of Quebec, Ltd. This application was presented to the Board of Governors on December 11, and received the approval of that body with the recommendation that formal acceptance be voted at the General meeting on December 12. Upon this recommendation it was moved by Mr. Widmayer, seconded by Mr. Hough and unanimously agreed that Lake Asbestos of Quebec, Ltd., be accepted as an associate member company of the Institute.

b) The next report under new business was presented by W. S. Hough who in addition to serving the Institute as Treasurer also served as Chairman of the Budget committee and the report of this committee was presented at this time. The budget committee appointed by the President and composed of Messrs. Hough, Bettles and Widmayer met with President Griffis and Dr. Shaw on November 24, 1958. In this meeting the following budget was drafted to cover the financial requirements of the Institute for 1959:

General Fund

Secretary's Salary	\$ 3,050.00
Secretary's Travel	500.00
Office Expense	1,500.00
Legal Expense	2,000.00
Legal Travel	150.00
Audit Expense	325.00
Meeting Expense	2,000.00
Nuclear Studies	600.00
New Exhibit Expense	750.00
Incidentals	250.00
	\$ 11,125.00

Fellowship Fund

Fellowship Salary	\$ 9,725.00
Fellowship Grant	3,000.00
Lab. Assistance	500.00
Lab. Expense	300.00
	\$ 13,525.00

Total \$ 24,650.00

It was reported by the Treasurer that the budget as presented had been acted upon favorably by the Board of Governors and it was the recommendation

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of this Board that this budget be approved in general meeting. It was moved by Mr. Widmayer, seconded by Mr. Brown and unanimously agreed that the budget be approved.

7. With the closing of the formal segment of the meeting, President Griffis called Mr. J. A. Bettes, Past-President, to the head table and presented to him, on behalf of the membership, an engraved silver cigarette box. Mr. Bettes was deeply appreciative of this gift and addressed the meeting briefly regarding his sentiments.
8. There being no further business to come before this meeting, it was moved by Mr. Hough, seconded by Mr. Widmayer and unanimously agreed that the meeting be adjourned.

Myril C. Shaw,
Secretary

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MT-003849

Minutes of the Asbestos Textile Institute Air Hygiene and Manufacturing Committee.

IN ATTENDANCE:

W. C. Atkinson
J. E. Cerny
A. E. May
J. L. Mitchell
H. E. Palm
W. C. Seeds
R. B. Smith
U. D. Torrance

Johns-Manville Corp.
Tallman-McCluskey Fabrics Co.
Keasbey & Mattison Co.
Southern Asbestos Corp.
Raybestos-Manhattan, Manheim, Pa.
Johns-Manville Corp.
Raybestos-Manhattan, North Charleston
Johns-Manville Corp.

The following subjects were discussed at a round table type of discussion:

I. LEGISLATION

One member company reported that a complaint was made against their company, to the Department of Industry and Labor, concerning a condition in the plant. The department inspector investigated the complaint and also made a thorough inspection of the entire plant. The inspectors cited regulations which were of an inflammatory nature. These regulations had never been enforced but could be if so desired.

This is cited to show the importance of keeping informed on pending legislation. The regulation cited above has been effective since 1954.

II. DUST CONTROL

A. One member asked if any dust counts had ever been taken at a card during the stripping operation. No dust counts were available at the present time; however some of the members intend taking counts in the future. The Abington system is used in card stripping by one of the member companies; however as an added precaution the operator wears a respirator.

B. One member advised that the feed box on their cards is completely enclosed and is exhausted by a 4" suction pipe. The cylinder hoods have two 6" outlets. The area beneath the cards is cleaned periodically with the Abington system.

Another member reported that on the breaker cards two 3" pipes exhaust the enclosed feed bin, one 3" pipe over the feed apron, one 3" pipe over the Dickey roll, and one 4" pipe to the cylinder hood. The finisher card has one 3" pipe hood over the feed apron, one 4" from above and one 4" from below the cylinder and two 2" pipes between the ring doffers. The air volume is about 2,000 cfm for a complete card and dust counts range from 1.5 to 2.12 million parts per cu. ft.

A third member reported that their feed boxes were open and that a 6" pipe was on the cylinder, a 3" on the feed box, and side vents were in use on the ring doffers. Dust counts varied from 1.5 to 3.0 million parts per cu. ft.

C. Mr. Atkinson gave members of the committee photographs of the enclosures developed for their spinning frames. The installation is now complete and the operation is quite satisfactory. The curtains are made of rubberized

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