

Minutes: Air Hygiene and Manufacturing Committee

June 3, 1965

Motel LeProvence

Thetford Mines, P. Q. Canada

10:30 A.M. to 3:00 P.M.

Attending:

Members:

L. C. Williams, Chairman	Raybestos-Manhattan, Inc.
W. C. Atkinson	Johnsville-Manville Corp.
D. T. Austin, Jr.	United States Rubber
C. L. Sheckler	Johns-Manville Corp.
R. B. Smith	Raybestos-Manhattan, Inc.
A. C. Link	United States Rubber
T. C. McCluskey, Jr.	Tallman-McCluskey Fabrics Co.
K. W. Nelson	American Smelting & Refining Co.

Guests:

Dr. K. Smith	Johns-Manville Corp.
Dr. L. J. Cralley	U.S. Public Health Service
Dr. J. H. Wolfsie	Medical Director-U.S. Rubber
Dr. P. Cartier	Thetford Mines Clinic
Maurice Lachance	Q.A.M.A.
Jerry Mitchell	British Belting & Asbestos Ltd.

Absent:

H. Walter	American Asbestos Textile
A. P. Gouveia	H. K. Porter Co., Inc.

Public Health Service Survey

Dr. Lewis J. Cralley

Scientist Director, Assistant Chief

MT-004601

Dr. Cralley presented a paper (draft copy) prepared by Jeremiah B. Lynch of the Department of Health, Education and Welfare titled "Asbestos Study - Procedures and Findings". Particular attention was given to Table 1. This table shows the improvement industry control programs have had on dust concentrations.

Table 1
Dust Concentrations - Asbestos Textile Surveys

SURVEY	Penna.	PHS 1938		Public Health Service
	1934	Without	With	1964
		Control	Control	
Concentration in mppcf				
Range of)	67.0	36.0	2.6	2.6
concentration)	to	to	to	to
	3.8	7.1	1.2	1.2

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Two (2) charts were also presented. The first showing Average Dust Concentration by Plant and Operation in department Fibre Preparation, Carding, Spinning, Twisting and Weaving. The second chart was on Dust Concentration by Operation. The chart bars were identified as IMPINGER x10, MF Total Fibers, MF Fibers > 5 μ , MF Fiber >10 μ and show the Fibres/cc when using the IMPINGER x10 vs the membrane filters counted at 430 X Phase Contrast.

All indications point to good dust control in the Textile Plants. Dr. Cralley cautioned us not to become complacent as it is important to keep improving systems at every opportunity and further, we do not know at this time what the data means with respect to health.

Dr. Cralley distributed another paper titled "Relationship of Impinger Counts to Fibre Concentration by Membrane Filters in Asbestos Textile Plants" prepared by H. E. Ayer, G. H. Edwards, J. H. Fanney, Jr., J. R. Lynch, U. S. Department of Health, Education and Welfare. The committee will review this paper and will discuss same at the next meeting. When both these papers are finalized, they will be published. The Textile phase of environmental studies will be completed by fall of 1965 and all data published will be of interest to the membership.

Dr. Cralley is meeting with the groups doing field studies. Also, with Insurance - Air Hygiene Groups, Seminar at the Universities of Texas, Oklahoma and Pittsburgh, Scientific and Medical Groups and at the International meeting, 1966 in Vienna, Switzerland.

During the discussion period several points were made:

1. There is a 25% error in dust counting.
2. Where there is a 5000 total count the fibre count is considerably lower around 1000.
3. Plants should make all data pertinent to this program available.
4. Dr. Cralley's group has completed 10 plants surveys. There are 2 remaining.

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Portable Vacuum Cleaners

MT-004602

Two (2) units, 1) Suction Apparatus and 2) Compressed Air Unit were tried. Both units do a satisfactory cleaning of easy to reach areas but in equipment and close areas, they are not adequate.

The committee has agreed that for the present this investigation is complete and we do not know of any available vacuum unit that will replace air hose cleaning method used by most of us. We would request any member to report any new units as they become available so we can investigate their possible use. We are all very interested in retiring the air hose method at the earliest possible date.

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Direct Dust Counter

Information received by Ken Nelson states Bausch and Lomb are developing a new Direct Dust Counter light and a photo electric cell to count all dust particles in the air. When this unit is developed it may eliminate much of the manual counting presently being done.

Three main factors make a unit such as this desirable:

1. Eliminate the human factor.
2. Take more readings in a shorter period of time.
3. Cost of unit estimated at \$3300.00.

Ken Nelson will follow up with Bausch and Lomb, and if a unit is ready by the October meeting, a request will be made to have it demonstrated at that time.

Consultant Industrial Hygiene Program

A suggestion has been received to discuss and investigate the possibility of Asbestos Textile Manufacturers retaining a consultant to supervise a uniform industrial hygiene program and to conduct periodic surveys of plants.

Generally, the consultant would check dust concentrations and noise levels in plants. He would then be available to give his findings as an outside report. This would be an aid to the industry whenever they are confronted with compensation cases, as he would have facts and history on actual in-plant conditions.

The committee is aware that more cases are going to be filed as time goes on and with this fact it was agreed all members will consider this suggestion and report their wishes at the next meeting. When reviewing, keep in mind

1. Hearing cases - 4 in New Jersey
1 in Quebec
1 case cost \$38,000 at age of 69-1/2 years.
2. Cost of Consultant approximately \$150 to \$200 per day plus expenses.

MS 005197

Automatic Loom Cleaning

MT-004603

Parks-Cramer have developed a new unit called Weave Cleaner-Travel Vac which has much higher velocity air - cooperating vacuum. They claim the unit is more effective than the compressed air hose and the broom without their disadvantages. Any member interested in further information should contact Parks-Cramer Company, Fitchburg, Mass./Charlotte, N. C./Atlanta, Ga.

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Published Pamphlet - "Method for Determining Asbestos Dust Concentration"

Since our meeting in Pinehurst last February we have disposed of 27 copies of subject pamphlet. These went to:

American Asbestos Textile Corp.	5 copies
Asbestos Magazine	9
Asten-Hill Mfg. Co.	4
Zonolite (Div. of W.R. Grace Co., Libby, Montana)	1
Alta Friccon S.A., Mexico	1
North American Asbestos Corp., Chicago	5
Central Asbestos Co., Ltd., London, Eng.	1
Mines Dept., Ministry of Commerce & Industry Nicosia, Cyprus	<u>1</u>
Total	27

Balance on hand, approximately 859 copies.

Each member is requested to help to distribute the pamphlet whenever there is any interest. The pamphlets that have been distributed meet the needs of the receivers as we have never received any suggestions for revision of any part.

In order to generate more interest by covering a larger part of industry an advertisement is being placed in the Journal of Industrial Hygiene.

General

The committee and guests wish to express their sincere thanks to the liners for a very educational and pleasant meeting at Thetford Mines, P. Q., Canada.

Respectfully submitted,

L. C. Williams, Chairman
Air Hygiene & Mfg. Comm.

MT-004604

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Minutes
GENERAL MEETING
Asbestos Textile Institute
June 4, 1965

Hotel Le Provence, Thetford Mines, Canada

IN ATTENDANCE:

AMERICAN ASBESTOS TEXTILE CORP.

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

ASBESTOS CORPORATION LTD.

G.F. Jenkins
P.E. LeClerc (A.C.S. Ltd.)
E.L. Alexander (A.C.S. Ltd.)
W.W. Oughtred
M.P. Carson
A.L. Penhale
G.F.A. Brink
M.C. Pharo

BELL ASBESTOS MINES LTD.

G.W. Smith
F.P. Smith
Wm. J.W. Smith
R. Dodds-Hebron
Norman L. Barr

CASSIAR ASBESTOS CORP.

J.D. Christian
N. Gritzuk
T.T. Tigert
R. Marson (Ontario Research Foundation)

JOHNS-MANVILLE CORP.

W.S. Hough
E.A. Schuman
W.C. Atkinson
C.L. Sheckler
Dr. K.W. Smith

LAKE ASBESTOS OF QUEBEC LTD.

F.J. Messel
E.A. Farrell
K.W. Nelson

H.K. PORTER COMPANY, INC.

J.T. Griffis
J.D. McCluer
D.E. Childers

RAYBESTOS-MANHATTAN, INC.

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

TALLMAN-MC CLUSKEY FABRICS CO.

Ted D. McCluskey

TURNER & NEWALL LTD.

Bernard Lincoln

U.S. RUBBER COMPANY

A.C. Link
D.T. Austin, Jr.
S.J. Peele, Jr.
B.D. Hubbard
J.H. Wolfsie (Dr.)

BRITISH BELTING & ASBESTOS LTD.

J.L. Mitchell

CADWALADER, WICKERSHAM & TAFT

F. Jay Flocken (Legal Counsel)

ASBESTOS TEXTILE INSTITUTE

H.E. Sunbury (Exec. Secretary)

SOCIETE ANONYME FRANCAISE DU FERODO

Monsieur Collineau
" Decaestecker

U.S. PUBLIC HEALTH SERVICE

Dr. L.J. Cralley

JOHNS-MANVILLE CO. OF CANADA LTD.

M.W. Hendry

** GUESTS **

Karl V. Lindell, Chairman, Canadian Johns-Manville Co., Ltd.
J.O. Eby, Vice Pres. & Genl. Mgr., Jeffrey Mine, Can. Johns-Manville Co. Ltd.
R. Gagnon, Lake Asbestos of Quebec, Ltd.
L. Piuze, Mine Mgr., Lake Asbestos of Quebec, Ltd.
F.J. Messel, President, Lake Asbestos of Quebec, Ltd.
A.L. Penhale, Chairman & President, Asbestos Corporation Ltd.
G.F. Jenkins, Director, Asbestos Corporation Ltd.

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Minutes - General Meeting - continued: - 2 -
Guests:

L. Montpetit, Manager, Nicolet Asbestos Mines Ltd.
Ivan Sabourin, Q.C., Montreal
C.B. Brown, Bell Asbestos Mines Ltd.
J.A.D. Marcotte, Director, Asbestos Corporation Ltd.
Dr. R.J. Merrill, Mgr., Carey-Canadian Mines Ltd.
F.P. Hodgson, Manager, Flintkote Mines Ltd.
M. Lachance, Q.A.P.A. Dust Engineer, Thetford Industrial Clinic
R.S. Coleman, Manager, National Asbestos Mines Ltd.
Dr. L.J. Cralley, U.S. Public Health Service, Cincinnati, Ohio
Dr. K.W. Smith, Medical Director, Johns-Manville Corp., New York, N.Y.
Dr. J.H. Wolfsie, Medical Director, United States Rubber Co., New York, NY
Mr. N.L. Barr, Director, Bell Asbestos Mines Ltd., Sales Mgr., Atlas Asb. Co.
Dr. R. Marson, Director, Ontario Research Foundation
N. Gritzuk, Asst. to the Genl. Mgr., Cassiar Asbestos Corp., Ltd.
Dr. Paul Cartier, Thetford Industrial Clinic, Thetford Mines
Geo. S. Fabel, American Asbestos Textile Corp.
A. Collineau, Societe Anonyme Francaise Du Ferodo
M. Decaestecker, " " " " "

In addition to the above guests we were privileged to have thirty ladies accompany their husbands to our luncheon on Friday, June 4th.

--- Minutes of the Meeting ---

1. The meeting was called to order by President J.A. Brown, Jr., who expressed our appreciation for the opportunity of holding this meeting in Thetford Mines, and thanked our hosts, Asbestos Corporation, Ltd.; Bell Asbestos Mines Limited; Canadian Johns-Manville Co., Ltd.; Cassiar Asbestos Corporation Limited; and Lake Asbestos of Quebec Limited, for their wonderful hospitality and meticulous handling of the many details incidental to the meeting. The miners' committee who handled the local arrangements consisted of H.F. Carson, Asbestos Corp.; H.W. Hendry of Can. Johns-Manville Co.; Roland Gagnon, Lake Asbestos of Quebec; Wm. J.W. Smith of Bell Asbestos Mines representing Cassiar Asbestos Corp.; and F. Parker Smith, Bell Asbestos Mines, who was Chairman of the committee. To all of these gentlemen we extend individual thanks for a job that was exceedingly well done! President Brown then introduced a number of the special guests who were attending this meeting, following which he explained that due to the fact that some of the men had to leave before noontime in order to catch a midafternoon flight out of Montreal, the usual agenda had been reversed to enable them to hear our several guest speakers.

2. Our first speaker was Mr. M.J. Messel, President of Lake Asbestos of Quebec, Limited, who welcomed the members of A.T.I. with these remarks: "President Brown, Members of A.T.I., Guests: It is a pleasure, on behalf of the Canadian Asbestos Miners, to welcome you to asbestos country with its man-made mountains and to tell you how pleased and honoured we are to have you hold your meeting in Thetford Mines.

While I have not been very active in A.T.I., I have followed its work very closely through the reading of the fine and comprehensive reports which your Secretary so ably puts together. I have also followed closely the cooperative work which your technical committees have been doing with the Quebec Asbestos Mining Association, which

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is much appreciated and mutually beneficial. I know the work of an association such as yours is a difficult one due to wide range and complexity of problems that have to be dealt with and wish to congratulate your association in the splendid and effective way that it conducts its affairs and copes with your industry problems. As yet there is no shortage of Group 3 spinning fibres from the mines in Canada, as I can still see plenty of order-takers around. However, there are indications of possible shortages in some of the asbestos cement grades. At one time the spinning fibre grades were the mainstay of the asbestos producing industry, but this has now been supplanted by the asbestos cement fibre grades together with expanded uses of the shorter fibres.

During 1964, the Canadian Asbestos producing industry employed over 6000 people and exported approximately 1,333,000 tons of asbestos with an approximate gross value of \$155,000,000. Of this total only 34,607 tons were crude and spinning grades with an approximate total value of \$14,000,000. The U.S.A. market consumed approximately 14,600 tons of crudes and spinning fibres with a value of approximately \$6,400,000, and this has remained rather constant for the past 3 or 4 years. The only other large suppliers of spinning fibres are Russia and Rhodesia. The figures we obtained during our visit to Russia would indicate approximately 20 to 25 thousand tons of spinning fibres out of an estimated total production of 1,600,000 tons; so Canada still holds its dominant position as supplier of textile fibres.

The cooperative work that is being carried on for improved fibre testing methods and standards should lead to a better understanding between the producing and consuming asbestos industries.

Mr. Sabourin, as attorney for C.A.M.A., will tell you something of the work that is being considered with respect to the health of the workers in our industry. I feel there should be room for cooperative work between the A.T.I. and C.A.M.A.

I hope your visit among us will be a most happy and pleasant one and will result in a better understanding of our mutual problems, and I know the Local Committees of A.T.I. and the Canadian Asbestos Miners have done a splendid job in making your stay amongst us both happy and memorable."

3. President Brown then introduced Dr. Kenneth W. Smith, Medical Director of Johns-Manville Corporation, who stressed the desirability, indeed the necessity, of the asbestos industry telling the truth about the health of its employees and giving meaningful reports as to company experience. He pointed out that some of the more prolific writers on so-called "asbestosis" have relatively little background of actual "cases" on which to base their theories or conclusions, as compared with our collective and also individual company experience over many years time. Dr. Smith urged full cooperation on the part of various companies to open their records, and full cooperation with the work of the U.S. Public Health Service. He stated that the general overall health of Johns-Manville longtime employees compared favorably with industry in general, and pointed to the steadily expanding membership in their 25 year club as evidence of this fact.

4. President Brown then introduced Mr. Karl V. Lindell, Chairman, Canadian Johns-Manville Co., Ltd., who expressed his pleasure at having the opportunity to attend this meeting, and said that he would like to have Mr. Ivan Sabourin, Q.C., attorney for the C.A.M.A., tell us about the work that has been done in past years to protect the

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health of asbestos workers, and about the outline planned for the newly formed Q.A.M.A. program for Research in Mining Pathology for the Study of Respiratory Diseases as related to Chrysotile Asbestos. Some of the very interesting points brought out by Mr. Sabourin were: In the year 1935 the mining industry started X-raying their employees at regular intervals in order to safeguard their health. The North Carolina State Board of Health was contacted to compare methods for dust counting and for X-ray procedures. Also worked with those hospitals in Canada that had compiled background experience in the field of respiratory diseases.

Paid tribute to Dr. Paul Cartier of the Thetford Industrial Clinic, pointing out that Dr. Cartier had contributed many valuable papers and reports on asbestosis over a span of many years. Also that Dr. Grainger of Canadian Johns-Manville Co. Ltd., Dr. George Wright of Cleveland, and Dr. A.J. Vorwald of Detroit deserved much credit for their work and contributions to the increasing fund of general knowledge regarding asbestosis.

Stressed that the mining industries require their doctors to keep up with the work being done by others on pneumoconiosis research, and to attend meetings both here and abroad, and participate in the discussions at those meetings. He stated with great emphasis that the knowledge possessed by the industry's doctors on the biological effects of chrysotile asbestos was not surpassed elsewhere in the world. Mentioned that contacts have been made with doctors in Russia, East Germany, Finland, Italy, England and other countries. Expressed his belief that cancer is not necessarily involved due to association with asbestos. Pointed out that the A.M.A. article that appeared only about two weeks ago was not convincing - only informative - indicates much further work is needed - regrets adverse publicity that results from such articles.

Expressed the opinion that while the welfare of the worker should be the responsibility of management, we need to know more about the worker's environment after he leaves the plant.

Explained that the Q.A.M.A. program is still in the formative stage. They seek alliance with some university, such as McGill, for example, so that authoritative background for publicity can be had. The program will start modestly, with competent men coming into it - men with a vast background of actual experience. They recognize the need to consolidate experiences, and also having traveled widely in other countries, they find that research units are usually located adjacent to a large, well equipped hospital. Frequently, the worker has a condition that is not attributable to association with asbestos, discovered through cooperation with the hospital staff.

In conclusion Mr. Sabourin expressed the thought that it would be wonderful if the Asbestos Textile Institute could join their efforts to the Q.A.M.A. program for the benefit of all - deplored the isolation of efforts and poor liaison between research laboratories and research units. Suggested that a common-council as a governing body might be the answer and result in more rapid progress.

5. The next speaker was Dr. L.J. Cralley, of the U.S. Public Health Service, who for the past several years has been supervising the extensive Environmental Study of asbestos employees in textile plants in the U.S.A. Dr. Cralley said that the Study was going well, and fine cooperation from both management and employees has been experienced. The U.S. Public Health Service is now extending their work into other asbestos industries such as asbestos-cement, etc. Feels that the results to date certainly justify the program and its further expansion.

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In other areas of activity the U.S.P.H. Service presented a paper at the recent American Industrial Conference at Houston, Texas, which summarized their study experience in five plants. Draft copies of two papers were distributed to our Air Hygiene Committee on June 3rd. The first paper by Jeremiah B. Lynch of the Dept. of Health, Education and Welfare, titled "Asbestos Study - Procedure and Findings" and the second paper, titled "Relationship of Impinger Counts to Fibre Concentration by Membrane Filters in Asbestos Textile Plants". (Both of these papers are covered more fully in the report of our Air Hygiene & Mfg. Committee which is attached to these minutes.) Dr. Cralley plans to speak at Seminars frequently in the future, such as University of Texas, insurance companies, etc. Mentioned that since the conference on "Biological Effects of Asbestos", held in New York last October, the New York Academy of Sciences has now established a "Division of Environmental Sciences". At the conclusion of his talk Dr. Cralley answered several questions from the audience.

6. President Brown then asked Mr. N.W. Hendry, General Sales Manager for Canadian Johns-Manville Asbestos Limited, to report for the Fibre Committee.

Mr. Hendry stated that inventories of spinning fibre are ample but substantially below the levels of one year ago. Demand for Group 3 fibres remained relatively flat in 1964 in most countries of the world with the exception of the U.S. and Europe. The increase in demand in the latter area was considerably greater than in the U.S. Business conditions in Japan are fair, Italy poor, Germany fair, United Kingdom good, and the remainder of Europe relatively good in the asbestos textile and asbestos-cement fields. It is expected, however, that the second half of 1965 will show an improvement over the first half in those areas of the world in which business conditions have been below average.

The average reduction in the -200 mesh McNett content of spinning fibres from 1953 to 1965 is in the order of 50 - 75 per cent. New asbestos fibre production projected from new properties in Canada includes the Clinton Creek property of Cassiar in 1968, Asbestos Hill of Asbestos Corporation in 1970, and the possible Reeves property of J.M. in Northern Ontario. This new production will supply the asbestos-cement market principally. Russian production in 1964 at 1,600,000 tons exceeded that of Canada for the first time and this trend is expected to continue in the forward years.

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8. The Report of Funds was presented by E.A. Schuman, Treasurer, and is attached to these minutes.

9. It was moved by S.J. Peele, Jr., that the reading of minutes of the last meeting be omitted - seconded by E.L. Alexander - so voted.

10. The Committee Reports as made by their respective chairmen are attached to these minutes. J.P. Wronski gave the report for the Fibre Testing Committee as its chairman, I. Barnett, could not attend this meeting.

11. President Brown welcomed J.L. Mitchell as a representative of British Belting & Asbestos, Ltd., stating that we were greatly pleased that he would be in regular attendance at our meetings.

12. President Brown announced that our next meeting would be held on the 7th and 8th of October, (arrival on the 6th) and tentative location was Hotel Hershey, Hershey, Penna. Subsequent to the meeting, it was found that the Hotel Hershey could not accommodate our meeting on those particular dates, and it has been decided to hold the October meeting at "The INN", Buck Hill Falls, Penna., October 6-8th. The INN is a famous hostelry delightfully located in the scenic Pocono Mountains. It should be an ideal time of year to be there, with autumn foliage at its height. Located 100 miles from either New York or Philadelphia, it may be reached by Erie-Lackawanna train to Cresco (3 miles to INN). Limousine meets all trains. By air there is commercial service to Scranton-Wilkes Barre or Allentown-Bethlehem-Easton Airports. Private or chartered planes may land at Mount Pocono Airport. By car from New York or Philadelphia is a three hour drive over excellent roads. The INN operates on the American Plan, and the daily rates, including all meals, is Double Room \$19-\$21 per person; Single Room \$20-\$22 per person; single occupancy of double room \$25 per person. SO -- MARK YOUR CALENDAR - "The INN", Buck Hill Falls, Pa., October 6th to 8th --- and bring your WIFE!

13. President Brown paid tribute to A.J. Scanlan, Treasurer of the Institute in 1953 and 1954, and Vice President in 1959-1960, who passed away on February 13, 1965. President Brown stated that he had sent a letter of sympathy to Mrs. Scanlan at direction of the Board of Governors of the Institute and had received a nice letter from her in reply. He then asked the members to observe a moment of silence in memory of "Ank" Scanlan.

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14. President Brown reported that "Jack" Bettes, of Raybestos-Manhattan, Inc., was unable to attend this meeting due to the fact that he was not yet fully recovered from a recent major operation, however he is now back at his desk on a part-time basis. Jack, always a staunch supporter of A.T.I., probably hasn't missed a meeting in the last twenty years, and we felt his absence most keenly. His many friends in the Institute wish him a speedy return to complete good health.

15. The meeting then adjourned for luncheon, to which the wives had been invited, and it proved a most enjoyable affair.

16. Adjournment of the meeting followed luncheon.

Respectfully submitted,

H.E. Sunbury
H.E. Sunbury - Exec. Secretary

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