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SUMMARY OF THE ATI MINUTES FILES
TO DETERMINE THE AMOUNT OF KNOWLEDGE OF EACH OF THE MEMBERS
WITH REGARD TO ASBESTOS HEALTH HAZARDS

Minutes, general meeting, ATI,
June 3, 1977
(Dr. Kotin's files 1977-1979)

June 9, 1978 minutes -- Summary of past, current and anticipated activities within Federal Regulatory Agencies that impact upon the asbestos industry. Presented by the Asbestos Information Association, B. J. Pigg. In attendance: copies of the speech were sent to all members. Description: Discussion of caution label as recommended to Mr. Alcorn was approved by the QAMA Technical Committee. The reading of the caution label is "Caution. When Handling Asbestos Fibers, Avoid Creating Bodily Dust. Breathing Asbestos Dust May Cause Serious Bodily Harm." The Environmental Committee discussed at the request of W. B. Reitze, of Johns-Manville, waste disposal methods and differences between various pertinent state regulations. Another topic discussed was smoking in the work place and various problems with approaches to a no smoking program. Reitze stated that Johns-Manville had a no smoking program by anyone at the Denver operation.

ATI minutes -- February 4, 1977
Those in attendance: AMATEX Corporation (W. Maaskant, M. J. Scanlan, H. H. Walter; Raybestos-Manhattan, Inc. (G. Ferrucci, J. W. Hawkin, C. A. Kennedy, R. C. Moebius, M. Q. Scowcroft); Southern Asbestos Company (E. C. Bratt, D. E. Childers, J. W. Echerd); Asbestos Textile S. A. (D. B. Barois); Canadian Johns-Manville (H. M. Hay, D. H. Markusson, A. R. Morrill); Garlock of Canada (R. B. Pilmer, G. Vallee); Nippon Asbestos Co. (S. Shima); TBA Industrial Products (H. J. Corson, Jr.); Atlas Textile Co. (W. H. Johnston); Asbestos Corporation, Ltd. (H. R. A. Devriese, P. E. Leclerc); Cassiar Asbestos Corporation (J. G. Berry); FRL/AN Albany International (S. Golub); Asbestos Textile Institute (G. D. Officer, Esq., D. M. Fagan).

Minutes of meeting -- June 6, 1975
Those in attendance: AMATEX Corporation (H. H. Walter); ASBERITS/A (M. Cattaneo); Asbestos Textile S. A. (F. Ize); Atlas Textile Co. (W. H. Johnston); Lake Asbestos of Quebec, Ltd. (E. A. Farrell); Nippon Asbestos Co. (Y. Sato); Raybestos-Manhattan Inc. (J. F. Maclichlan, R. T. Mathew, R. O. Moebius, M. W. Oliver, M. Q. Scowcroft); Southern Asbestos Co. (E. C. Bratt); TBA Industrial Products Ltd. (H. J. Corson); Uni-Royal, Inc. (B. E. Carden). Discussion of repirators for asbestos dust, who was using what type, where and why. No one had experience with approved powered air purifying respirators required for the higher dust concentrations. Some people were using single use repirators for up to one week, while others are using reusable permanent type respirators with the cleaning and sanitizing program required by the OSHA Asbestos Standard. The proposed new asbestos standard was also discussed. They also discussed requesting

from OSHA a better definition including a uniform practical sampling time, be obtained from OSHA for ceiling concentration. They also discussed ATI's technical committee making every effort to find a better method than the membrane filter method for measuring airborne concentrations in asbestos fiber. The committee discussed the special clothing, change rooms and closed locker section of 1910.1001.

1972 presentation of proposed standard for exposure to asbestos dust -- KUZMUK. In this presentation he represents ATI in opposing the proposed asbestos dust standard as published in the Federal Register, January 12, 1972. He states that ATI knew back in 1964 the potential health hazard of asbestos and that Mr. Clifford Scheckler, Chairman of the ATI Environmental Health Committee took the initiative in '64 to request Dr. Lewis Cralley of the U. S. Public Health Service to conduct an epidemiological study of the asbestos textile industry.

ATI Minutes -- 1944 to 1946
Asbestos minutes -- September 26, 1945
Those in attendance: J. F. Burke of J. Franklin Burke and Co.; J. A. Betts, Jr. of Raybestos-Manhattan, Inc.; C. H. Carlough, Carolina Asbestos Co.; George S. Fabel, Southern Asbestos Co.; E. Muehleck, Keasbey and Madison; A. J. Scanlon, Philadelphia Asbestos Co.; E. R. Teubner, Jr., Philadelphia Abestos Co.; F. J. Wakem, Johns-Manville Corporation; J. M. Weaver, Raybestos-Manhattan Inc.; F. Simms McGrath, Counsel for the Institutes; H. D. McKinney, Institute Manager. Description: The president strongly urged that all members who have not already done so should appoint representatives to the Dust Control Committee so that activities can be started. At this meeting Mr. Muehleck, chairman of the committee, presented a report of his committee including new members' findings and recommendations. Mr. Fabel presented the tentative plan for the ATI Central Medical Department as prepared by Dr. Vestal to be turned over the the Dust Control Committee for action. The Dust Control Committee recommended incorporation of damp weaving whereever feasible. Discussion was had and no decision was reached on this recommendation.

June 13, 1945
Those in attendance: C. H. Carlough, Carolina Asbestos Co.; George Fabel, Southern Asbestos Co.; W. C. Scott, Keasby & Madison Co.; E. R. Teubner, Jr., Philadelphia Asbestos Co.; George Marshall, Raybestos-Manhattan, Inc.; F. J. Wakem, Johns-Manville Corporation; H. D. McKinney, Manager, Asbestos Textile Institute. Discussion was held regarding letter from Mr. McCormick offering his services on problems relating to health, dust control and insurance. No action was taken at that time. An advertisement featuring electronic air filtering development was brought up for discussion and relegated to the proper committee. Mr. Teubner and Mr. Fabel moved that a committee be appointed to treat problems of dust control and to arrange for the interchangeable information on the results obtained by individual companies. The Dust Control Committee as of September 26, 1945 consisted of these members: Asbestos Textile Company, J. Franklin Burke and Company, Caroline Asbestos Company (T. S. Sadler),

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The Garlock Packing Company, Johns-Manville Corporation, Keesby and Madison (E. Muehleck), Philadelphia Asbestos Company (J. G. Tyson, Jr.) , Raybestos-Manhattan, Inc. (B. W. Luttenberger), Southern Asbestos Company (Albert Alwood), Union Asbestos and Metal Company (R. E. Cryor).

April 4, 1946
Those in attendance: H. T. Bain, Johns-Manville; John Balch, Union Asbestos and Rubber Company; J. A. Bettes, Raybestos-Manhattan, Inc.; A. R. Burns, Union Asbestos and Rubber Company; C. H. Carloff, Caroline Asbestos Company; Robert Cryor, Union Asbestos and Rubber Company; George S. Fabel, Southern Asbestos Company; T. L. Gatke, Asbestos Textile Company; L. R. Hoff, Johns-Manville Corporation; F. Simms McGrath, Cadwalader, Wickersham and Taft; A. J. Scanlan, Philadelphia Asbestos Company; L. J. Silverman, Union Asbestos and Rubber Co.; E. R. Teubner, Jr., Philadelphia Asbestos Company; F. J. Wakem, Johns-Manville Corporation; Andrew Widfield, Keasbey and Madison; W. D. Widmayer, Keasbey and Madison; Harris D. McKinney, Institute Manager. On page 4 of these minutes, Mr. Teubner expressed great satisfaction with the activities and results of the Dust Control Committee. It was agreed that the report describing the dust control system used by the Garlock Packing Company should be copied and distributed to all member companies. At the October 3, 1946 meeting the Dust Control Committee's name was changed to the Air Hygiene Committee.

June 19, 1946
Those in attendance: C. H. Carlough, Carolina Asbestos Company; George Fabel, Southern Asbestos Company; George Marshall, Jr., Raybestos-Manhattan Inc.; F. Simms McGrath, Cadwalader, Wickersham and Taft; E. R. Teubner, Jr., Philadelphia Asbestos Company; Frank J. Waken, Johns-Manville Corporation; D. W. Widmayer, Keasbey and Madison; Harris D. McKinney, Institute Manager. Mr. Fabel submitted a tentative plan of a health plan for the institute, as prepared by Dr. Vestal. This plan was read by the manager and open discussion followed. Mr. Teubner moved that the entire matter be turned over to the Dust Control Committee for their immediate consideration and that then a report be prepared. The Dust Control Committee will also investigate costs of the plan and the possibility of having Dr. Vestal attend the next general meeting.

1947 and 1949

June 19, 1947
Minutes of meeting -- in attendance: J. Franklin Burke & Co. (J. F. Burke); Carolina Asbestos Co. (C. H. Carlough); Johns-Manville Corporation (S. V. Dillon, B. F. Stanton); Keasbey and Madison Co. (A. Widfield, W. C. Scott); Philadelphia Asbestos Co. (E. R. Teubner, Jr.); Raybestos-Manhattan, Inc. (J. A. Betts, Jr. B. W. Luttenberger, G. W. Marshall, Jr., J. M. Weaver); Southern Asbestos Co. (G. S. Fabel); Rudgers University (Dr. M. C. Shaw); Industrial Hygiene Foundation (W. C. L. Hemeon); Cadwalader, Wickersham and Taft (M. I. Ruddock); Institute Manager (H. D. McKinney); Guest J. A. Marcotte.

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At this meeting Mr. Hemeon presented the findings of the survey done by the Industrial Hygiene Foundation. Copies of the report were sent to each member company. Mr. Hemeon recommends semi-annual meetings of the Air Hygiene Committee and meetings with doctors connected with the Industrial Hygiene Foundation for discussions of health problems and progress in their solutions.

April 7, 1949
Those in attendance: Asbestos Textile Co. (A. E. Burngen, F. T. Gatke); Johns-Manville Corporation (S. V. Dillon); Keasbey and Madison Co. (A. Widfield); Philadelphia Asbestos Co. (A. J. Scanlon); Rudgers University (M. C. Shaw); Raybestos-Manhattan, Inc. (J. A. Bettes, G. W. Marshall, J. M. Weaver, W. A. Gilbert); Southern Asbestos Company (G. S. Fabel); Union Asbestos and Rubber Co. (R. E. Cryor, A. R. Byrnes, A. F. Gerome); Cadwalader, Wickersham and Taft (M. I. Ruddock). At this meeting the work of the Air Hygiene Committee was discussed. Mr. R. E. Cryor reported his observations on the dust control problem and how it is being handled in England. It was pointed out that many English manufacturers are ahead of those in the United States with regard to protective measures being used such as spinning frames being completely enclosed and evacuated wall in operation. It was felt that the most important factor in these improved conditions was more strict legislative control exerted upon such operations in England. The secretary read exerpts from an article entitled "Cancer and Environment" written by Graff Conklin in Scientific American, January 1949. It was felt that the information here incriminated asbestos unjustifiably as a carcinogenic material and it was felt that some clarification of this subject should be extended. Mr. Marshall suggested that Dr. Lanza of Metropolitan Life Insurance Company should be consulted on this subject.

Note

June 14, 1951
Those in attendance: (R. E. Cryor), Union Asbestos and Rubber Co.; American Asbestos Textile Corporation (A. J. Scanlon); Asten-Hill Manufacturing Co. (J. G. Schoepf); Johns-Manville Corporation (S. V. Dillon, F. J. Wakem); Keasbey and Madison Company (A. E. Widfield, W. D. Widemayer); Raybestos-Manhattan, Inc. (J. A. Bettes, G. W. Marshall, J. M. Weaver); Southern Asbestos Company (G. S. Fabel); Union Asbestos and Rubber Company (A. R. Byrnes, G. A. Novack); Cadwalader, Wickersham and Taft (M. I. Ruddock); Rudgers University (M. C. Shaw). At this meeting the Air Hygiene Committee, Mr. R. E. Cryor recounted his observations at the Cape Asbestos Company, England where the dust reduction system over the spinning frames is done by means of a plastic cover, so designed and installed as to confine and collect all the dust resulting from this operation. An effort will be made to obtain permission from Cape Asbestos Company to circulate among institute members, drawings and plans of this installation.

October 9, 1952
Those in attendance: American Asbestos Textile Corporation (E. C. Cutler, A. J. Scanlon, E. R. Tuebner, J. W. Weber); Asbestos

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Corporation Ltd. (J. A. Marcotte, A. L. Penhale, G. H. Rinehart); Asten-Hill Manufacturing Company (D. V. Asten, D. R. Holmes, J. G. Schoepf); Johns-Manville Corporation (M. S. Badolett, S. V. Dillon, L. R. Hoff, H. M. Jackson, J. C. Kelleher, K. V. Lindell, W. MacAlpine, J. R. Robson, J. L. Tucker, F. J. Wakem, W. C. Hoffer, K. Q. Beyard); Johnson's Company Ltd. (W. J. Johnson); Keasbey and Madison Co. (C. R. Frederick, R. L. Lanz, A. E. Widfield, D. W. Widmayer); Raybestos-Manhattan, Inc. (J. A. Bettes, O. H. Cilley, G. W. Marshall, M. W. Oliver, J. F. DeRohrobach, J. M. Weaver); Small and Parks Ltd. (G. E. Taylor); Southern Asbestos Co. (J. D. Beatty, G. S. Fabel, G. J. Harris, J. D. McClure); Union Asbestos and Rubber Co. (R. E. Cryor, A. F. Jerome, A. W. Summers, E. T. Johnson); Cadwalader, Wickersham and Taft (M. I. Ruddock); Rudgers University (M. C. Shaw); American Asbestos Textile Corporation (E. C. Cutler); Asten-Hill Manufacturing Co. (J. G. Schoepf, D. R. Holmes); Johns-Manville Corporation (H. M. Jackson, Acting Chairman); Small and Parks Ltd. (G. E. Taylor); Southern Asbestos Co. (J. D. Beatty, G. S. Fabel); Union Asbestos and Rubber Co. (E. T. Johnson); Guests, R. H. Coultrap of MPI Miscellaneous Metals and Minerals Division. The Air Hygiene Committee, Hugh M. Jackson requested that approval be given for air sampling at all member company plants to determine the feasibility results and costs of a program of air sampling and analysis. The result would be a comprehensive proposal outlining the methods, values, and costs of the industry air contamination evaluation program. F. J. Wakem and D. W. Widmayer supported and approved this program. The Air Hygiene Committee also gave a report on occupational disease and workmen's compensation laws. "The suspect relation of asbestos to cancer is a matter receiving the attention of compensation commissions and is of great importance to institute members." One member company is using an allergy test in pre-selection examinations to determine people who have an allergic type reaction to glass fiber. Different methods of air sampling and air sampling programs is also discussed. It was the consensus that future committee meetings should include papers on specific applications on dust control, medical practices and industrial hygiene techniques.

Wednesday, March 11, 1953

Air Hygiene Committee Meeting -- those in attendance: J. B. Weber, D. R. Holmes, T. G. Schmidt, E. T. Johnson, H. M. Jackson and Guest K. W. Smith, M.D. Dr. Smith of Johns-Manville discussed the medical aspects of asbestosis. It was recommended the company related doctors be invited to the next meeting of the Air Hygiene Committee on June 11th. It was proposed at this meeting a program be developed for the accumulation and exchange of disease experience of the member companies. Air sampling techniques were also discussed.

June 20, 1952

Those in attendance: R. E. Cryor of Union Asbestos and Rubber Co.; American Asbestos Textile Corporation (A. J. Scanlon); Asbestos Corporation Ltd. (J. A. D. Marcotte); Asten-Hill Manufacturing Co. (J. G. Schoepf); Johns-Manville Corporation (W. G. Hoffer, J. L. Tucker, Brown, R. Jackson, J. M. Jackson); Johnsons Company (Carl Bindman);

Keasbey and Madison Co. (W. C. Dodge, D. W. Woodmayer, A. E. Widfield, C. R. Frederick); Raybestos-Manhattan Inc. (J. M. Weaver, A. M. Byxbee); Southern Asbestos Co. (G. S. Fabel, O. C. Tehrens, C. J. Harris, J. D. McCluer); Union Asbestos and Rubber Co. (A. W. Summers, A. R. Burnes); Cadwalader, Wickersham and Taft (M. I. Ruddock); Rudgers University (M. C. Shaw). The Air Hygiene Committee presented by G. S. Fevel said each member company will be given a questionaire to contain pertinent information to implement in their hygiene program. "Several new hygienic problems now confront the asbestos textile industry and, in recognition of these conditions, this committee earnestly seeks the full cooperation of all members so that full consideration can be given these matters."

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December 15, 1953
Minutes of meeting of Air Hygiene Committee
12-9-53
Those in attendance were: K&M (Thomas Schmidt); R&M (George Leutenberger); American Asbestos Co. (John Weber); Union, Charlotte Plant (Gene Novack); Johns-Manville (Benjamin Stanton); Raybestos-Manhattan (Ralph Smith), Charleston Plant; John McCormick and D. R. Holmes of Asten-Hill Manufacturing Co. At this meeting they discussed their survey of asbestosis incidents complete with years of exposure submitted by member companies. There is also a discussion of forced breathing therapy and its relief to asbestotics. Three member companies were using this apparatus. They discussed particle size and diameter study being made by the Travelers Engineering Laboratory in Hartford. Each member company was to forward samples to the lab. They also discussed the study of dust collection equipment. It was the contention of Johns-Manville that the American Wheelobraiter is the best type of dust collector on the market and has the lowest maintenance cost. Pangborne Collectors are the most satisfactory. It was recommended that a study be made toward the possibility of eliminating drive weaving in member company plants. At the general meeting this recommendation was accepted.

September 9, 1953
Those in attendance: R. Smith, B. W. Leutenberger, E. T. Johnson, T. G. Schmidt, H. M. Jackson, D. R. Holmes, J. W. Weber, J. G. Schlepf, G. Kovack, J. D. Beatty. Guests are Dr. Sander, Dr. White, Dr. Theodos, Dr. Cartier, Dr. Heatherington, Dr. Myers. The doctors discussed x-ray reviews, complications in diagnosis of obese persons, relationship of off the job behavior to disease production, symptoms of asbestosis, job transfer as a means of prevention, relationship of heart function to asbestosis, and the evaluation of different types of fibers in disease production.

medical interest

June 10, 1953
Those in Attendance: J. W. Weber, D. R. Holmes, T. G. Schmidt, R. Smith, J. D. Beatty, George Fabel, H. M. Jackson. There is a discussion of the Saranac research on experimental asbestosis. The doctors agreed on these points: complete pre-employment and periodic annual exams are essential; x-rays should be a 14x17 inch size taken on equipment of a rating of at least 100 milliamperes; timed vital capacity tests should be included in the exams. The doctors agreed

that each doctor from the various medical companies will bring to the next meeting data on the work force at each plant indicating the diagnosis and x-ray classification and length of type of exposure for each individual. The doctors pointed to the value of the Saranac research and indicated several areas where further investigation was needed. The doctors also discussed the problems in determining a valid sampling technique. John Weber discussed and presented drawings of his design for dust control at the Twisters. The hood has shown to be an excellent method of control.

March 11, 1953
Air Hygiene Committee Meeting -- those in attendance: J. W. Weber, D. R. Holmes, D. G. Schmidt, E. T. Johnson, H. M. Jackson and Guest Dr. Kenneth Smith. Dr. Smith discussed the medical aspects of asbestosis and the disturbances to pulmonary function and the differentiation of silicosis and asbestosis.

August 14, 1953
English Asbestos Company Ltd. (R. B. Draper) Request from Dr. Shaw from ATI a copy of the June 11 report of the Hygiene Committee. He is interested in one of the two types of flyer frames for the dust collecting hoods. He also requests a copy of the report on the Saranac research. Air Hygiene Committee report was

September 10, 1953
Those in attendance: D. W. Widmayer of Keasbey & Madison; American Asbestos Textile Corporation (A. J. Scanlon, J. W. Weber); Asten-Hill Manufacturing Co. (J. D. Schoepf, D. R. Holmes); Johns-Manville Corporation (F. J. Wakem, H. M. Jackson, J. L. Tucker, E. R. Schuman, R. Jackson); Keasbey & Madison Co. (A. Widfield, C. R. Fredrickson); Raybestos-Manhattan Inc. (J. A. Bettes, Ralph Smith, M. W. Oliver); Southern Asbestos Company (G. S. Fabel, J. T. Griffiths, O. C. Fehrens, G. J. Harris, J. D. Beattey); Union Asbestos and Rubber Co. (F. J. Corcoran, A. R. Byrnes, A. W. Summers); Society Anonyme Frances du Ferodo, (J. F. Tesniere, P. Segard); Asbestos Corporation Ltd. (J. A. Marcotte); Johnson's Company (A. W. Gibbs); Cadwalader, Wickersham and Taft (M. I. Ruddock); Rudgers University (M. C. Shaw). At this meeting a report by the Air Hygiene Committee of their September 9th meeting was presented. This was the previous report discussed regarding the doctor's reports.

Asbestosis Incidence Study dated December 8, 1953 (?)
The study was done by the Air Hygiene Committee, D. R. Holmes of Asten-Hill Manufacturing Company as acting chairman. Five unnamed companies reported on the incidences of asbestosis. Five year minimum exposure was correct except in two instances. "With proper pre-hire physicals and x-ray examinations these few cases with less than five years exposure could have been avoided and it is quite possible that in a short time we may be able to say that this disease should not be contracted with less than ten years exposure. The companies who participated in this survey are not named.

Survey of Dust Collection Equipment - Asten-Hill Manufacturing Co. Card Room - December 8, 1953
The dust collection system is in three phases; 1) air supply 2) air removal from the machines 3) dust collection. This summary

was done by John McCormick, Plant Engineer.

December 8, 1953
Review of Johns-Manville's experience in the use of dust collection equipment in the asbestos textile industry. This report was done by F. Stanton, supervisor of safety at Johns-Manville Corporation.

December 8, 1953
Dust collecting experience of General Asbestos and Rubber Division of Raybestos-Manhatten by Ralph B. Smith. This report describes their fans, dust collectors, preparation department and card room. They have a Klysor bag type collector, a large burlap screen house for the weave room, a cyclone type collector, a wet roto-clone and Pangborn collector for their rubber department.

Report of levels of asbestosis
February 13, 1952
by J. Tsniere of S. A. Francaise du Ferodo, Paris, France.

December 8, 1953
Air Hygiene Committee meeting, dated December 5, 1956. Those in attendance: D. R. Holmes, R. Smith of General Asbestos; W. Leutenberger of Raybestos-Manhattan; J. Weber of American Asbestos; A. May of Keasbey and Madison. Discussion of the memorandum from IHF regarding the relationship between asbestosis and cancer. Discussion of the environmental dust survey from the IHF. A proposal was made that member companies should send to the chairman a list of current dust counts in their plants. A discussion of spraying fibers with oil was held. Two member companies were using oil with good results. Also a discussion of the effects of radiation with the use of x-rays.

September 5, 1956
Those in attendance: D. R. Holmes, R. Smith, General Asbestos; H. Jackson, Johns-Manville; W. Leutenberger, Raybestos-Manhattan; J. Weber, American Asbestos; J. Beatty, Southern Asbestos; A. May, Keasbey and Madison. Discussion of the Wheelobrator dust collection system. Discussion of means and methods of eliminating harmful dust. One company uses the flyer frames for twisting on reinforced yarns. They discussed x-ray examinations, dust counts in member company plants and the proposed epidemological study of lung cancer in asbestos workers for the Asbestos Institute by the Industrial Hygiene Foundation. They also discussed the spraying of fibers with oil for eliminating dust.

June 4, 1956
Those in attendance: D. R. Holmes, Ralph Smith, General Asbestos; Dr. Kenneth Smith, Johns-Manville; George Griswold, Southern Asbestos. They discussed the relationship between asbestosis and cancer with regard to the Taylor case at Lancaster, Pennsylvania in which a state referee decided the case in favor of the employee on the basis of finding an asbestosis-cancer relationship. This decision was made on the basis of writing by Dr. Hueper of National Institute of Health,

Bethesda, Maryland. Dr. Kenneth Smith stated that most medical men think a normal x-ray pattern must be shown in order to establish an asbestosis-cancer relationship. A memorandum by the Industrial Hygiene Foundation was distributed entitled "Proposed Epidemological Study of Lung Cancer in Asbestos Workers for the Asbestos Textile Institute." The two questions discussed were: Is there a relation between cancer and asbestosis and is there a relationship between lung cancer and exposure to asbestos fibers and dust. Survey was done by IHF between April 23 and May 7 visiting seven plants of ATI. Conferences were held with representatives of management from each plant to determine the availability of medical records and employment records during the time period covered. The committee then discussed the cost of doing this survey and the time committment. Dr. Kenneth Smith said it is of primary importance this program be adopted as soon as possible so that the IHF could publish the results of this survey. They discussed a heavy type bag loader that John Weber has in operation that is practically dust free. They also discussed the Wheelobrator dust collection system and workmen's compensation as it is handled in several states.

Minutes of meeting of Board of Governors
March 7, 1956

Those in attendance: F. J. Wakem, President, Johns-Manville Corporation; A. J. Scanlon, Asbestos Textile; D. R. Holmes, Asten-Hill Manufacturing Co.; A. E. Widfield, Keasbey and Madison; J. A. Bettes, Raybestos-Manhattan; R. S. Hulse, Southern Asbestos Co.; M. I. Ruddock, Cadawalader, Wickersham and Taft; M. C. Shaw, ATI. Dr. Kenneth Smith and Mr. Holmes of the Air Hygiene Committee reported on a report entitled "Public Health Monograph Number 36, A Quest Into the Environmental Causes of Cancer of the Lung". Dr. Smith strongly recommended that the Institute initiate a program of investigation and publicity to counteract the unfavorable publicity presently directed to the asbestos industries as a result of the work of Dr. Heuper. Much of the information in Dr. Heuper's report is unsubstantiated and in variance with established understanding and knowledge in the medical profession. It was agreed that the Air Hygiene Foundation be engaged to conduct preliminary survey concerning the relationship of asbestosis to cancer.

Air Hygiene Committee Meeting
March 7, 1956

Those in Attendance: D. R. Holmes, H. M. Jackson, R. Smith, J. Weber, B. W. Leutenberger; Guests: Frank T. Gatke of Asbestos Textile Co. and Mr. Houghton of Garlock Packing Co., Dr. Kenneth Smith of Johns-Manville and W. D. Shoemaker of American Mutual Liability Insurance Co. There was a discussion of asbestosis and cancer with regard to Dr. Heuper's writings. Dr. Heuper says that asbestosis is compensable in Germany, England and Wales. Dr. Smith advised that there is another damaging report out by Dr. Heuper entitled "Silicosis, Asbestosis, and Cancer of the Lung." Dr. Smith recommends that the Institute begin a study of their own of the relationship between lung cancer and asbestosis. There is also a discussion of dust sampling of plants and fiber conditioning,

such as by Spencer-feed oiler and spray heads used under pressure.

March 8, 1956
General Meeting
Those in attendance: F. J. Wakem, J. W. Weber, D. R. Holmes, W. C. Seeds, E. A. Schumann, K.Q. Barard, E. H. Wells, W. S. Hoff, H. M. Jackson of Johns-Manville; C. R. Fredericks, R. L. Lands, A. E. Widfield, D. W. Widmayer of Keasbey and Madison; J. A. Bettes, J. A. Brown, M. W. Oliver, R. B. Smith of Raybestos-Manhattan; J. T. Griffiths, G. J. Harris, R. S. Hulse of Southern Asbestos Co.; T. T. Tigert of Cassier Asbestos Corporation; M. I. Ruddock of Cadawalder, Wickersham and Taft; M. C. Shaw of ATI; Guests Frank Gatke of Asbestos Textile Co. and G. E. Houghton of Garlock Packing Co. The Air Hygiene Committee represented by D. R. Holmes, chairman, discussed specific actions to refute the report of Dr. Heuper regarding asbestosis and lung and heart diseases. The committee with the approval of the Board of Governors had appropriated sufficient funds to do a preliminary survey to investigate the possibility of action designed to refute the work of Dr. Heuper.

Air Hygiene Committee Meeting
June 4, 1956
Those in attendance: D. R. Holmes, Ralph Smith, Dr. Kenneth Smith, George Griswold. They discussed the Taylor case and Dr. Heuper's report.

September 5, 1956
Those in attendance: F. J. Wakem, president; A. J. Scanlon of American Asbestos; J. G. Schoepf of Asten-Hill; D. W. Widmayer of Keasbey and Madison; G. W. Marshall of Raybestos-Manhattan; J. T. Griffiths of Southern Asbestos; M. I. Ruddock of Cadawalader, Wickersham and Taft; M. C. Shaw, secretary of ATI. Air Hygiene Committee report presented by Mr. D. R. Holmes. Topics covered: air purification and conditioning, fiber conditioning, the proposed epidemological study to be undertaken by IHF, and the proported relationship of asbestosis and lung cancer. It was agreed by the members of the Board that every effort should be exerted to disassociate this relationship until such a time that there is sufficient and authoritative information to substantiate such a fact.

note

September 5, 1956
Meeting of the Air Hygiene Committee
Those in attendance: D. R. Holmes, R. Smith, H. Jackson, W. Leutenberger, J. Weber, J. Beattey, A. May. They discussed the Wheelobrator dust collection system, means and methods of eliminating harmful dust, the use of the Spencer oiler for conditioning stock and dust counts in member company plants.

December 5, 1957
Meeting of the Air Hygiene and Manufacturing Committee
Those in attendance: W. C. Atkinson, H. M. Jackson, W. Leutenberger, A. E. May, T. C. McCluskey, J. L. Mitchell, W. C. Seeds, R. B. Smith, J. W. Weber. The following items were discussed: Mr. Jackson reported

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that the study conducted by IHF was complete but not yet available. Mr. Leutenberger reported that Dr. Maier is continuing his work on the percentage and types of dust received in various raw fibers. It was agreed that new workers should be provided with correct information as to the nature of the industry and the medical and nursing staff at the plants. Mr. Weber reported on his trip to Europe where he visited textile plants in France. He said the machines do not operate at as high a speed as American machines. They discussed recent dust counts and the effectiveness of hoods over broadcloth looms.

Minutes of Asbestos Textile Institute
Air Hygiene and Manufacturing Committee
September 5, 1957

Those in attendance: W. C. Atkinson, Johns-Manville; John Cerney, Tallman, McCluskey Fabrics Co.; H. M. Jackson, Johns-Manville; A. E. May of Keasbey and Madison; R. B. Smith, Raybestos-Manhattan. They discussed a report from Turner-Newall,"Estimation of the Dust Hazard in the Factory Using the Greenburg-Smith Impinger". The committee agrees that they should use this method of evaluation since it is used by both federal and state health agencies. R. B. Smith reported on low dust counts from the Charleston plant reflecting a program of regular maintenance. They also discussed vacumn cleaning systems.

Board Meeting
March 7, 1957

Those in attendance: J. A. Bettes, Raybestos-Manhattan; F. J. Wakem, Johns-Manville; A. E. Widfield, Keasbey and Madison; J. T. Griffiths of Southern Asbestos Co.; T. C. McCluskey of Tallman-McCluskey Fabrics Co.; M. I. Ruddock of Cadawalader, Wickersham and Taft; M. C. Shaw of Asbestos Textile Institute. The Air Hygiene Committee reported on two surveys designed to provide data on asbestos dust hazards. The committee also discussed manufacturing methods and techniques designed to improve operating conditions. It was decided that the committee should now be known as the Air Hygiene and Manufacturing Committee.

Air Hygiene and Manufacturing Committee
June 6, 1957

In attendance: B. W. Leutenberger, Raybestos-Manhattan; A. E. May, Keasbey and Madison; J. L. Mitchell of Southern Asbestos; W. C. Atkinson, Johns-Manville; John Cerny of Tallman-McCluskey Fabrics; R. B. Smith of Raybestos-Manhattan. They discussed dust collecting equipment, delivery of material from one department to another aimed at reducing dust in these operations, various methods of oiling stock, dust counts and procedures for taking dust counts, vacumn cleaners and various methods of dust counting.

Air Hygiene and Manufacturing Committee Meeting
March 7, 1957

Those in attendance: D. R. Holmes, Asten-Hill Manufacturing Co.; R. B. Smith of Raybestos-Manhattan Inc.; B. W. Leutenberger of

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Raybestos-Manhattan; J. W. Weber of American Asbestos Textile; A. E. May of Keasbey and Madison; W. C. Atkinson of Johns-Manville; J. L. Mitchell of Southern Asbestos. They discussed the "Memorandum on Proposed Epidemological Study of Lung Cancer in Asbestos Workers" and they voted against continuation of their own survey because of other programs already being done. "There is a feeling among certain members that such an investigation would stir up a hornet's nest and put the whole industry under suspicion. We do not believe there is enough evidence of cancer or asbestosis or cancer and asbestos in this industry to warrant this survey." They then discussed methods and means of eliminating dust in plants of member companies.

Board Meeting Minutes
June 6, 1957

Those in attendance: J. A. Bettes, Raybestos-Manhattan; A. J. Scanlon of American Asbestos Textile; D. W. Widmayer of Keasbey and Madison; J. T. Griffiths of Southern Asbestos; E. C. McCluskey of Tallman-McCluskey Fabrics; M. I. Ruddock of Cadawalader, Wickersham and Taft; M. C. Shaw of ATI. The Hygiene Committee report was presented by R. B. Smith of Raybestos-Manhattan in the absence of the regular chairman D. R. Holmes. They discussed problems of dust control and measurement and new manufacturing techniques. The full report as presented to the general meeting was attached as part of the minutes of that meeting.

Quarterly Meeting
September 6, 1957

Those in attendance: J. A. Bettes, president of ATI from Raybestos-Manhattan; A. J. Scanlon of American Asbestos Textile; W. C. Atkinson, Edward Beal, L. R. Hoff, W. S. Hough, H. M. Jackson, E. A. Schuman, E. H. Wells, of Johns-Manville; S. I. Harris, R. L. Lanz, A. E. May, D. F. Quealy, A. E. Widfield, D. W. Woodmayer of Keasbey and Madison; J. A. Brown, Jr., M. S. Maier, M. W. Oliver, R. B. Smith of Raybestos-Manhattan; J. T. Griffiths, G. J. Harris, J. B. McCleur, J. L. Mitchell, of Southern Asbestos Co.; A. R. Burns, John Cerny, T. C. McCluskey, R. S. Tallman of Tallman-McCluskey Fabric Co.; J. A. D. Marcotte of Asbestos Corporation; G. W. Smith and F. Parker Smith of Bell Asbestos Mines; J. D. Christian, T. T. Tigert of Cassiar Asbestos Corporation; Carl Bindman of Johnson's Co.; M. I. Ruddock and B. M. Walls of Cadawalader, Wickersham and Taft; M. C. Shaw of Asbestos Textile Institute; Guests: W. Hill of Southern Asbestos Co.; J. A. Obrin of Johns-Manville; R. R. Porter of Keasbey and Madison; J. F. D. Rohrbach of Raybestos-Manhattan; M. Scanlon of American Asbestos Textile; E. R. Teubner of Philadelphia Asbestos Co.; and S. R. Zimmerman of Raybestos-Manhattan. The Air Hygiene Committee report was presented by H. M. Jackson. He reviewed the discussions by the committee from the committee meeting on September 5th with regard to the use of the Greenburgh-Smith impinger as investigated at the Turner-Newall plant in the Rochdale factory. The full report was attached as part of these minutes.

Meeting of Air Hygiene and Manufacturing Committee
December 5, 1957

Attached to these minutes is a report on respirators. Respirators should be used as a last resort when other control measures are

impractical to accomplish adequate control.

Minutes of Asbestos Textile Institute Air Hygiene and Manufacturing Committee
June 5, 1958
Those in attendance: W. C. Atkinson, A. E. May, J. L. Mitchell, H. E. Palm, R. B. Smith, E. D. Torrance. There was a discussion of dust control at the spinning frames in textile plants. In several plants reduced spindle speeds were found to be the most practical means of dust control. Mr. Mitchell of Southern Asbestos stated that the Abington system installed in 1955 has reduced costs and improved cleanliness in the card room. Three companies recommended the use of Spencer oiling equipment. Dust control methods suggested were various types of hoods, dust counts and frequent cleaning in the spinning and twisting departments. Dr. Shaw received a letter from Sir William C. Fenton advising him of the formation of an asbestosis research council to cooperate with the Air Hygiene and Manufacturing Committee.

Minutes of Air Hygiene Committee
March 13, 1958
Those in attendance: W. C. Atkinson, J. E. Cerney, H. M. Jackson, A. E. May, J. L. Mitchell, H. E. Palm, R. B. Smith, E. D. Torrence. Under discussion was the advisability of developing a standardized method of testing working fiber to determine dust count. Mr. Mitchell of Southern Asbestos Corporation held on open house for members of employees' families to better acquaint the families with better working conditions. Mr. Hugh Jackson recommended allowing local medical groups and chapters of the industrial medical association to visit since they have large influence in the profession. Mr. Mitchell reported that the Abington system, which consists of a centrally located vacumn pump and duct system, has been satisfactory for card stripping, floor cleaning and frame cleaning. Mr. Jackson advised that on June 17 through 19 a symposium on lung diseases would be sponsored by the QAMA and that he had been asked to present a discussion on "Disease Control in the Asbestos Textile Industry, Degree of Control Accomplished and Methods Used and Low Incidence". Items discussed with regard to dust control were: small hoods for the carding system, a small blower for waste and service on cards, small portable fans cyclone and dust collector, spinning frame enclosures as experimented with by Johns-Manville, and taking dust counts when requested by factory employees at specific locations, and the use of humidifiers and the oiling of stock.

Asbestos Textile Institute Air Hygiene Committee Proposal for Asbestosis Research
It was recommended by the Air Hygiene Committee that individual members of ATI voluntarily participate in further research through cardio-pulmonary and autopsy studies. The cardio-pulmonary studies would be conducted by Dr. P. A. Theodos at Barton Memorial Hospital in Philadelphia. Autopsy studies would be made by Dr. Schepers of Saranac Laboratory. These reports would establish the nature and extent of the disease process that is not possible through the use of x-rays and clinical diagnosis only. This will have important bearing on workmen's compensation liability for a particular case. The minutes

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of the March 13th Air Hygiene Committee were reported to the general meeting on March 14, 1958. Those present were: J. A. Bettes of Raybestos-Manhattan; M. Scanlon of American Asbestos Textile; W. S. Huff, C. C. Simoni, B. Dan Torrance, W. C. Atkinson, E. A. Schuman, Edward Beal of Johns-Manville; S. I. Harris, A. E. Woodfield, A. E. May, D. W. Widmayer, D. F. Quealoy of Keasbey and Madison; R. B. Smith, N. S. Maier, J. A. Brown, M. W. Oliver of Raybestos-Manhattan; J. L. Mitchell, J. T. Griffiths, G. A. Harris of Southern Asbestos; T. C. McCluskey, J. Cearney, A. R. Burns of Tallman-McCluskey Fabrics; Paul LeClerc, A. C. Steel of Asbestos Corporation; A. W. G. Gibb of Johnson's Co., Ltd.; F. Parker Smith of Bell Asbestos Mines; R. E. Cryor of the Cape Asbestos Co.; M. I. Ruddock of Cadawalader, Wickersham and Taft; M. C. Shaw of ATI.

December 12, 1958

Those in attendance: J. T. Griffis, president of ATI from Southern Asbestos Co.; M. J. Scanlon of American Asbestos Textile; W. C. Atkinson, J. Battersby, Edward Beal, Otto Busch, L. R. Hoff, W. S. Hough, E. A. Schuman, W. C. Seeds, U. Dan Torrance of Johns-Manville Corporation; C. R. Hutchcroft, A. E. Maye, D. F. Quealy, A. E. Widfield, D. W. Woodmayer of Keasbey and Madison; J. A. Bettes, J. A. Brown, M. S. Maier, M. W. Oliver, R. E. Smith of Raybestos-Manhattan; G. J. Harris, J. D. McCluer, J. L. Mitchell of Southern Asbestos Co.; A. R. Byrnes, J. E. Cearney, T. C. McCluskey of Tallman-McCluskey Fabrics; G. F. Jenkins, J. A. Marcotte of Asbestos Corporation; F. Parker Smith of Bell Asbestos Mines; T. T. Tigert of Cassiar Asbestos Corporation, M. I. Ruddock of Cadawalader, Wickersham and Taft; M. C. Shaw of Asbestos Textile Institute. The Air Hygiene Committee report was presented by A. E. Maye, chairman. The activities of this committee are continuing along the lines to improve manufacturing methods and conditions throughout the industry. The group has been working with fiber testing committee of ATI and Asbestosis Research Council of England. The formal report as presented is attached to the minutes of this meeting.

Minutes of Air Hygiene and Manufacturing Committee
March 3, 1960

Those in attendance: W. C. Atkinson of Johns-Manville; J. E. Cerny of Tallman-McCluskey Fabrics; H. M. Jackson of Johns-Manville; J. L. Mitchell of H. K. Porter Co.; H. E. Palm of Raybestos-Manhattan; R. B. Smith of Raybestos-Manhattan; Hans Walter of American Asbestos Corporation. Matters discussed: One member company's insurance carrier had just completed entire health study and revealed only seven cases of first stage asbestosis (each case having been employed for fifteen years or longer). This can be compared to 85 cases which were evident in 1936. This is proof that dust removing systems have and are now benefiting all concerned. They also discussed that four member companies are now conducting yearly x-rays of all of their employees. Johns-Manville is conducting a comparison between the standard and the Midget Greenburg-Smith impinger. They discussed experiences member companies have had with their bag dumping equipment. They discussed the second annual report of the Asbestosis Research Council of England and correspondence from Dr. J. F. Knox of England. They discussed plant safety programs and

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plant accidents for the past year.

Minutes of Air Hygiene and Manufacturing Committee
September 12, 1960
Those in attendance: W. C. Atkinson, H. M. Jackson, A. E. May, J. L. Mitchell, H. E. Palm, R. B. Smith, J. W. Weber. They discussed the report, "Epidemological Study of Lung Cancer in Asbestos Miners" written by the Industrial Hygiene Foundation and sponsored by the Quebec Asbestos Mining Association. The paper discusses the question of whether there is an association between lung cancer and exposure to asbestos. They discussed dust control through tape loom hoods. One member company reported that they have installed scrapper conveyors under their cards that move the droppings to a suction nozzle located at one end of the conveyor. They also discussed compensation cases.

Air Hygiene and Manufacturing Committee Minutes
December 12, 1960
Those 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. They discussed legislation controlling plants, dust control, condensors, humidity control.

Air Hygiene Committee Meeting
December 15, 1960
Those in attendance: W. C. Atkinson, D. T. Austin of United States Rubber Company, L. D. Horiwitz, H. E. Palm, R. B. Smith and Hans Walter. Items discussed: environmental health survey,striving to standardize x-ray interpretation and classification, physical exams, work area description and dust sampling and counting; correspondence from Mr. Postman of Employers Mutual Liability Insurance Company requesting information on dust control work; dust collecting equipment and systems, general engineering subjects such as exhaust systems, spraying of oils and the importance that humidification plays in the manufacturing process.

Air Hygiene and Manufacturing Committee Minutes
June 6, 1960
Those in attendance: W. C. Atkinson, D.T. Austin, J. E. Cerny, R. B. Smith, Hans Walter, J. P. Wronski. The following items were discussed: environmental health survey, dust collecting equipment and systems, safety equipment being used in various plants and the upcoming meeting with Dr. J. F. Knox of England.

Air Hygiene and Manufacturing Committee Minutes
September 8, 1960
Those in attendance: W. C. Atkinson D. T. Austin, L. D. Horowitz, J. L. Mitchell, H. E. Palm, R. B. Smith, Hans Walter and Guests, G. S. Malenson of English Asbestos Company. They discussed dust collecting equipment systems and sampling such as a portable aerosol photometer which recognizes small particles in the air and indicates concentration of particles larger than a given size. They discussed the recirculation of air from dust collectors and allowable limits of

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dust levels. They recommended x-rays for employees at least once a year.

Minutes of the meeting of ATI
December 15, 1960
Those in attendance: W. S. Huff, president, A. J. Scanlon, J. T. Griffis, W. S. Steckman, A. E. Woodfield, J. A. Bettes, T. C. McCluskey, S. J. Peal, M. I. Ruddock, M. C. Shaw. The Air Hygiene Committee reported on the discussions held by that committee earlier on this date. The committee reported on their discussions of dust count procedures, dust removal systems, oil spraying, humidification and safety considerations. The formal report covering these remarks is attached to the minutes of the general meeting.

All of the Air Hygiene Committee meetings are reported to the general meeting.

Asbestosis Research Council
Second Annual Report for the Twelve Months Beginning October, 1958
The Asbestosis Research Council was established on the first of October, 1957. The committees are management committee: Sir William Fenton, British Belting and Asbestos Ltd., Mr. R. Barber, T. C. Hale of Cape Asbestos Company; A. A. Cross of Cape Asbestos; N. A. Morling, J. Waddel, B. W. Hills, and Dr. S. Holmes of Turner Brothers Asbestos Co.. The research committee is chairman J. F. Knox of Turner Brothers Asbestos Co., C. G. Attingly and W. H. Beverly of British Belting and Asbestos Ltd., Dr. R. Gaze of Cape Asbestos Co. and W. J. Smither of Cape Asbestos Co., E. L. Dawson, E. W. Hills and Dr. S. Holmes of Turner Brothers Asbestos Co.. Dr. J. F. Knox is executive member. The research committee met at Cambridge December 15, 1958, September 28, 1959, April 13, 1959 and in London June 29, 1959. They discussed becoming a liaison with the factory department in the Air Hygiene Committee of ATI. Research has reached the point where an apparatus for maintaining an asbestos dust cloud has been developed to the stage where it will maintain a dust cloud of a fairly steady concentration automatically. Conditions can be varied to produce a completely fiberous or non-fiberous dust cloud as required. The animal experiments have been delayed pending development of the dust machine to a satisfactory stage. Data on mineral content and particle size distribution and lung material from 50 cases of exposure to asbestos dust at Roshdale has been collected. Experiments on the injection of asbestosis bodies into the brains of animals have continued. It has been shown that sterile chrysotile fibers can result in the formation of asbestosis bodies within six months and that mature but unsegmented bodies do not produce any marked effects. Dust sampling research has shown that dust counts obtained in a steady concentration is dependant upon the sampling time. Evidence of this has been obtained by all three member companies but users of the instrument (Ottway Instrument) who are interested in non-fibrous dust have not experienced this difficulty. The research committee has been hampered by limitations of manpower. This report was attached to the March 1, 1960 ATI minutes.

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Minutes of the General Meeting
June 7, 1960
Those in attendance: J. T. Griffis, E. C. Cutler, Hans Walter, G. F. Jenkins, J. A. Marcotte, I. C. Campbell of Asbestos Corporation; F. P. Smith, G. W. Smith, A. J. Smith of Bell Asbestos Mines; J. D. Christian, C. R. Elliott, E. T. Tigert of Cassiar Asbestos Corporation; Charles Edonfield, F. J. Griffin of H. K. Porter Co.; W. C. Atkinson, Edward Beal, J. L. Eby, Noel Hendry, W. S. Huff, E. A. Schuman of Johns-Manville; Carl Bindman, A. S. Johnson of Johnson's Co.; N. L. Barr, B. C. Bond, W. M. Deckman, C. R. Hutchcroft, D. F. Quealy of Keasby and Madison; M. J. Messel, J. P. Wiser of Lake Asbestos of Quebec; Noel Reakes of National Asbestos Mines; J. A. Bettes, M. W. Oliver, R. B. Smith, L. C. Williams, J. P. Wronski, of Raybestos-Manhattan; J. E. Cerny, T. C. McCluskey of Tallman-McCluskey Fabrics; D. T. Austin, D. S. Nichols, S. J. Peale of U. S. Rubber Co.; M. C. Shaw of ATI; I. C. Brooks of Atlas Asbestos; E. A. Boadway, R. J. Merrill of Carey Canadian Mines, F. P. Hodgson of Flintkote Mines. At this meeting the Air Hygiene and Manufacturing Committee reported on the environmental health survey, dust collecting equipment and systems and various safety programs being pursued within the industry. The formal report as presented was attached as part of the minutes of this meeting.

March 5, 1959
Meeting
Those in attendance: A. J. Scanlon, W. S. Huff, D. W. Widmayer, J. A. Bettes, T. C. McCluskey, Bradley Walls, M. C. Shaw and J. T. Griffis. The Air Hygiene and Manufacturing Committee reported that the Asbestos Research Council of England has recently initiated a study of the Ottway Thermal Precipitator and asked for further details to be obtained by the secretary of the committee. Also discussed was certain insurance carrier requirements relating to the asbestos coverage which have become more strict.

March 5 and 6, 1959
Air Hygiene and Manufacturing Committee
Those in attendance: W. C. Atkinson, H. M. Jackson, A. E. May, J. L. Mitchell, A. T. Palm, W. C. Seeds, R. B. Smith, U. D. Torrance, J. W. Weber, Guest Charles Carroll Porczynski of Lake Asbestos Company of Quebec. They discussed the asbestosis research council report evaluating the use of the thermal Ottway precipitator for use in taking dust counts in the asbestos textile industry. They also discussed dust control, the use of recirculating air, installation of dust collecting equipment, the Welkra bag dumper, the Wilson 600-A respirator, and the policies of member companies regarding x-rays and health examinations.

Minutes of Air Hygiene and Manufacturing Committee
June 10, 11, 1955
Those in attendance: W. C. Atkinson, P. D. Cannon, of Johns-Manville; H. M. Jackson, A. E. May, J. E. Mitchell, A. T. Palm, and R. B. Smith. They discussed the pros and cons of the Ottway thermal precipitator

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dust control through the use of humidifiers and traveling water sprays on broadcloth looms to dampen the warp, spinning frames, employee health. Three companies reported that there was no progression in employees whose x-rays were taken 10 to 15 years ago, and now. All employees in dusty industries are x-rayed once a year by the state if no indication of disease is present are issued a permit allowing them to continue working for the following year. This rule is enforced in North Carolina as described by Mr. Mitchell in "dusty industries". Attached to these minutes is exerpts from a report offered by C. Z. Carroll Porszynski covering information received from Adriono Gardella of Genoa, Italy, regarding "Asbestos/ Spingard Spinning Frame". The article describes the safety devises and advantages of this spinning frame.

Board Minutes
September 10, 1959

Those in attendance: J. T. Griffis, A. J. Scanlon, W. S. Huff, D. W. Woodmayer, J. A. Bettes, M. I. Ruddock, M. C. Shaw. Mr. May, chairman of the Air Hygiene and Manufacturing Committee, reported on improvements in manufacturing methods and techniques and gave a review of the problems related to air hygiene. It was suggested that the secretary should correspond with the representative of the Asbestosis Research Council in England, preferably Sir William Fenton to learn what progress has been made in their endeavors and what cooperation ATI might extend to facilitate the work of the council. The full report of the activities of this committee for the two year period during which Mr. May was chairman is attached to these minutes.

Air Hygiene and Manufacturing Committee Minutes (no date)

Those in attendance: W. C. Atkinson, B. D. Cannon, H. M. Jackson, A. E. May, J. L. Mitchell, J. E. Palm, R. B. Smith, Maurice Lachance of Thedford Industrial Clinic. The following items were discussed: dust sampling, report by Hugh Jackson by J-M regarding standard and Midget Greenburg-Smith impingers; continuous dust sampling which showed that dust hoods are not as effective when windows are open, the humidity is higher causing a slight reduction in dust collector capacity. Discussion of TLV of 5 million ppcf was established. The break point of particles size of 10 microns was established at Saranac and has been adopted by many authorities who believe the particles under 10 microns are not harmful to humans. They also discussed dust collection and suppression and new equipment such as a bag slitter and dumper for asbestos fiber.

December 3, 1959
Meeting --

Those in attendance: J. T. Griffis, A. J. Scanlon, W. S. Huff, D. W. Woodmayer, J. A. Bettes, M. I. Ruddock, M. C. Shaw. The Air Hygiene Committee reported improvements in manufacturing and air conditioning systems throughout member companies; recommended the initiation of a safety program within the membership; suggested the establishment and maintenance of a liberian file of all available reference literature pertaining to the activities of this committee. The formal report covering the work of this committee was attached as part of the minutes of the general meeting held on December 4th.

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Minutes of Air Hygiene and Manufacturing Committee
December 3, 1959

Those in attendance: W. C. Atkinson, H. M. Jackson, A. E. May, J. L. Mitchell, H. E. Palm, R. B. Smith and Hans Walter. Subjects discussed: dust collecting equipment, vacumn cleaners, dust sampling equipment and plant safety programs.

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