MINUTES OF ANNUAL MEETING

of the

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

Wednesday and Thursday, June 28 and 29, 1978, 8:30 A.M.

at

Camelback Inn, Scottsdale, Arizona

MEMBERS PRESENT	REPRESENTATIVES
Abex Corporation	R. L. Cutler
Auto Friction Corporation	Adrian Comins
Bendix Corporation	F. E. Messier
Brassbestos Manufacturing Corp.	W. Simon
Carlisle Corporation	W. E. Harris, Jr.
General Motors Corporation	R. J. Kick
Lear-Siegler Inc.	D. J. Ogilvie
Nuturn Corporation	J. W. Greenen
Raybestos-Manhattan Inc.	R. R. Moalli
Reddaway Manufacturing Co.	F. W. Barton
S.K. Wellman Corporation	G. A. Carrigan
Wheeling Brake Block	L. Burgess (6/28)
PROXY AVAILABLE	
Lasco Brake Products	T. J. Laher (E. W. Drislane)
H.K. Porter Co.	J. C. Black (E. W. Drislane)

OTHERS PRESENT

Auto Friction Corporation	B. Kublin
Bendix Corporation	
Friction Materials Division	W. F. Messier (6/28)
Automotive Aftermarket Operations	D. Godfrey
Heavy Vehicle Systems Group	R. Elliott
Carlisle Corporation	R. Perritt
Delco-Moraine Division	R. E. Kettering
	G. P. Baynes (6/28)
Lear-Siegler Corporation	D. Lee
	R. Luellen
Nuturn Corporation	J. Mellow
Raybestos-Manhattan, Inc.	D. Cunningham
Reddaway Manufacturing Corp.	J. Moore
S.K. Wellman Corporation	R. Kaminski
Wheeling Brake Block	G. Stratton (6/28)
Gorman & Cole	R. P. Gorman
Friction Materials Standards Inc.	E. W. Drislane

MINUTES OF JUNE 22-23, 1977 MEETING

The minutes of the meeting held June 22-23, 1977 had been distributed. No corrections were suggested.

Upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: That the minutes of June 22-23, 1977 Annual Membership Meeting be accepted as written.

PRESIDENT'S REPORT

Mr. F. E. Messier, President, reported on Institute activities over the past fiscal year. Please refer to Exhibit 1, the President's report.

Mr. Messier reported on increased activities by the Asbestos Study Committee along with Task Force work on a work practices booklet for the user of friction materials. He reported briefly on the financial results of the Institute for 1977-78, along with the changes in Membership of (1) Maremont to Nuturn Corporation, and (2) Royal Industries to Lear-Siegler Inc. Mr. Messier extended a warm welcome to Mr. Gene Baynes, Chief Engineer of the Delco-Moraine Division of General Motors, who was to address the Membership Meeting. He reported on trademark registration work as well as on the "History" of the Institute that had recently been prepared by the Institute Office.

Upon motion duly made, seconded and uanimously passed, it was;

RESOLVED: To accept the President's report as written.

TREASURER'S REPORT

Mr. William F. Messier was elected Treasurer at the June 1976 Meeting. This was the first Membership Meeting he had been able to attend because of a conflict in 1977. Mr. Messier's report referred to the Balance Sheet and Income Statement for the year ended June 30, 1978. Please refer to Exhibit 3.

He noted that all data had to be preliminary because it was based on trial balance figures at April 30, 1978. In essence, the Income Statement showed approximately $7,000 income in excess of expenses for the 1977-78 year. He indicated that expenses would come in about $1,500 under budget.

The most significant variances were discussed. A ten year chart showing 8 prior years, figures projected for 1977-78, and preliminary budget figures for 1978-79 was shown. It was noted that the number of Active Members has leveled off or decreased slightly, while there has been a substantial increase in the number of Regional Members. Annual fees have not been increased since 1971. In summary, the Treasurer indicated that the Institute continues in healthy financial shape.

Upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: To accept the Treasurer's report as written.

REPORT ON BOARD OF DIRECTORS ACTIVITIES

The Secretary reported on activities of the Board of Directors since a report was rendered at the June 1977 Meeting. This report covered activities at the new Board of Directors Meeting that followed the Annual Membership Meeting as well as action taken by the Board during this past fiscal year.

At the June 22, 1977 meeting of the Board of Directors the following Officers were elected: Mr. Francis E. Messier, President; Mr. Ronald R. Moalli, Vice-President; Mr. William F. Messier, Treasurer; and Mr. Edward W. Drislane, Secretary. At this meeting the Board of Directors voted to retain Clapp & Eisenberg as Legal Counsel for the 1977-78 year. The Board of Directors voted to accept the Budget of $88,410 for the 1977-78 fiscal year. The Board of Directors voted to retain the prior year's fee formula for the 1977-78 year. This fee formula is at a basic rate of $1,050 with $650 for each category for Active Members. Individual Regional Members $1300; Association type Regional Members $2200; and Licensees $500.

During the year the Board of Directors took several actions by mail ballot. They voted to accept the transfer of the Membership of Maremont Corporation to the Nuturn Corporation. The Nuturn Corporation is a corporation owned about 80% by Turner and Newall of Great Britain and 20% by Maremont Corporation. The Board referred Mr. Adrian Comins' recommendations on Consumer Product Safety Commission recall procedures to the Asbestos Study Committee.

The Board of Directors voted to accept the application for Licensee Membership filed by Implementos Metalicos Lara, S.A. (IMELSA) of Venezuela in South America. The attorneys at Clapp & Eisenberg who had handled Institute affairs since 1975 formed a new law firm, Gorman and Cole. The Board of Directors voted unanimously to transfer our legal activities from Clapp & Eisenberg in Newark to the new firm of Gorman & Cole in Princeton, New Jersey. The Board of Directors voted to extend an invitation to Mr. Gene Baynes, Chief Engineer of the Delco-Moraine Division of General Motors to speak at our Annual Meeting in Scottsdale in June 1978. The Board approved capital expenditures for electronic dictating and slide projection equipment for the Institute Office. The Board of Directors voted to accept the new disclaimer language for our bulletins and catalogs as prepared by legal counsel. The Board voted to have the Institute proceed with preparation of a work practices booklet for users of friction materials. This work was assigned to the Asbestos Study Committee. The Board of Directors voted to accept the change in Membership when Royal Industries was acquired by Lear Siegler Inc. The Membership was transferred to Lear Siegler Inc.--Royal Brake Products Division.

At the Board of Directors Meeting on June 27, 1978 reports were delivered by the various Officers and Committee Chairmen. All reports were accepted by the Board of Directors. In reviewing the Membership report, questions were asked concerning the status of certain manufacturers who may be infringing on the FMSI copyrights. It was suggested that the Institute contact National Friction Products, the SAK Enterprises, Virginia Friction Materials and World Auto Parts. Questions were raised concerning the fee schedules for certain Regional Members using the U.S. copyright in the U.S. market. In particular it was indicated that the Friction

Materials Corporation of Israel and the Fras-Le Corporation of Brazil are active in more than one category for annual fee purposes. The Hayes-Albion resignation was discussed. The Chairman of the Investment Advisory Committee suggested the possibility of investing in short term treasuries. The Directors reviewed Miss Duschek's pension and recommended that a trust be set up so that she would have an irrevocable right to the pension. The Board of Directors recommended continuation of the same fee formula as in the past fiscal year. The Board resolved to express their gratitude to Mr. R. R. Moalli who had served for over 10 years as Chairman of the Data Book and Technical Committee. Mr. Moalli had resigned as Chairman of this Committee during the past year. The Directors referred back to the Asbestos Study Committee work that its Task Force had done on a work practices booklet. The Asbestos Study Committee will review the work of the Task Force and report back to the Board of Directors. The Directors also indicated that it would like to review comprehensive liability insurance for the Institute. The Directors declined to take action as regards replying to various media assaults concerning asbestos. The Directors selected the Ocean Reef Club in Key Largo, Florida for the 1979 Annual Membership Meeting with the Homestead in Hot Springs, Virginia as an alternate location.

The foregoing is a report on activities of the Board of Directors for the 1977-78 fiscal year.

FEDERATION OF EUROPEAN MANUFACTURERS OF FRICTION MATERIALS (FEMFM)

The Secretary reported on his trip to Rottach-Egern, Germany to attend the Managing Council and General Assembly meetings of the Federation of European Manufacturers of Friction Materials (FEMFM). The Secretary's report summarized work of the FEMFM Technical Committee concerning correlation of vehicle, dynamometer and Chase Machine tests. In addition, the subject of voluntary labelling of friction materials on the continent was discussed. This report may be referred to as Exhibit 10.

The Secretary reported that Mr. Robert Join, Secretary of the FEMFM had written early in June 1978 indicating because of the press of other activities he would not be able to meet with his American friends this year.

Upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: To accept the Secretary's report on the Federation of European Manufacturers of Friction Materials as written.

PRESENTATION BY MR. GENE BAYNES--CHIEF ENGINEER DELCO-MORAINE DIVISION

The President, Mr. Messier introduced Mr. Gene Baynes to the Membership. Mr. Baynes is a graduate of Purdue University who joined General Motors' Oldsmobile Division in the late 40's. He served for a while at the Bendix Corporation's Friction Materials Division before returning to General Motors, where he became Chief Engineer of the Delco-Moraine Division. Mr. Baynes presented a slide program which centered on the development of a brake system for the General Motors 1978 intermediate cars. He dicussed changing requirements for brake linings in new passenger car braking systems. He noted that the impetus for much of this change came from the requirements for improved fuel economy which among other things had forced weight reductions in passenger cars. He indicated that there had been parallel weight reductions called for in the brake systems which may require significantly improved brake linings. Mr. Baynes referred in his presentation to the use of computers for helping to package and optimize the brake system.

He indicated also the interest of General Motors in improving the life of brake systems. There was a question concerning the possibility of a return to drum brakes on the fronts as well as on the rears in moves for weight reduction. Mr. Baynes indicated that there was no movement in this direction that he could see based on the improved performance with disc brakes on the fronts. He indicated that another objective is that brakes must be simpler and easier to service. While there has been some trend towards discs on both the fronts and rears with cars such as the Toronado, Eldorado and of course the Corvette, these should be specialty applications and the disc front--drum rear should be the major package for passenger cars. Mr. Baynes indicated that the Pontiac Trans Am will have a disc front and rear package available. A question was asked concerning the use of asbestos substitutes in brake lining. Mr. Baynes indicated that semi-metallic materials had replaced organic in certain applications. If the aftermarket were to replace semi-metallic original equipment material with conventional asbestos organics, they could possibly be acceptable, but there may be some questions on temperature tolerance and the wear rate may suffer. Questions were raised about hybrid brake friction materials systems where, for example, a semi-metallic might be used on the outboard shoe with an organic material on the inboard. Mr. Baynes answered several questions in this area, and he emphasized that with the closing down of the envelope for the brake system that more performance must be expected of the friction materials.

Upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: That the Institute expresses their appreciation to Mr. Baynes for his interesting and thorough presentation.

BUDGET COMMITTEE REPORT

Mr. D. J. Ogilvie, Chairman of the Budget Committee, reported on the proposed budget for the 1978-79 fiscal year. Please refer to Exhibit 5.

In summary, a preliminary expense budget of $91,250 is planned for the 1978-79 fiscal year. This is a 3.2% increase over the 1977-78 expense budget. The Chairman noted the major items in the budget such as salaries, pension, rent and legal expense. It was indicated that this was a tight expense budget.

A question was raised about the postage expense budgeted for 1978-79. This showed the same $2,200 budgeted for 1978-79 as in 1977-78. The Secretary indicated that this budget figure was extablished in April 1978 before the recent increases in postage rates. It is likely that this figure will be under-budgeted in 1978-79 based on the recent increase.

Upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: To accept the report of the Budget Committee as written.

FEE FORMULA COMMITTEE REPORT

The Secretary advised that Mr. W. Max Sleeth was Chairman of the Fee Formula Committee. The Secretary had earlier written the Chairman with information on categories reported by members for the 1978-79 fiscal year. The Secretary also drafted a report, as Mr. Sleeth who is no longer with Lear-Siegler, was unable to return the report. Please refer to Exhibit 6.

The Fee Formula Committee report listed 18 Active Members with 36 categories to project $42,300 in Active Member fees for 1978-79, based on the 1977-78 fee schedule. The Regional Members (18) projected $28,900 in fees at the past year's dues level, and 11 Licensees projected $5,500 in fees. This would produce a total income from fees of $76,700 for the 1978-79 fiscal year, based on the same fee schedule used in 1977-78. With an anticipated $14,000 in interest income, this projects a total income of $90,700, which is slightly under the preliminary expense budget of $91,250. Based on this information, the Committee recommended that the fee formula for 1978-79 remain unchanged from that used in 1977-78.

The Board of Directors at their meeting on June 27, 1978 recommended adoption of this fee schedule. This would mean that for the 8th consecutive year there would be no increase in the dues schedule for Active, Regional or Licensee Members of the Institute. This may be referred to in the schedule attached to the Treasurer's report.

Upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: To accept the report of the Fee Formula Committee as written.

INVESTMENT ADVISORY COMMITTEE REPORT

Mr. William Simon, Chairman of the Investment Advisory Committee reported on activities of this Committee in the 1977-78 year. Please refer to Exhibit 4.

Mr. Simon indicated that there would be slightly over $170,00 in bank savings accounts and time deposits at June 30, 1978. The bulk of the funds were deposited in 7-1/2% bank time deposits.

At the Board of Directors Meeting on June 27, 1978 the Chairman recommended that consideration be given to investment in higher yielding treasuries when funds are available. Some treasuries with 2 or 3 year maturities are paying in excess of 8%. The Secretary indicated that this would be reviewed when the next investments are planned. However, with the recent Board decision to establish a trust for Miss Duschek's pension, some of the institute time deposits, when they do mature may be used to fund the trust. In either event, whether for the Institute or the trust, consideration will be given to investments in treasury notes paying in excess of 8%.

Upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: To accept the report of the Investment Advisory Committee as written.

MEMBERSHIP COMMITTEE REPORT

Mr. Gordon Carrigan, Chairman of the Membership Committee read his Committee's report. Please refer to Exhibit 2.

Mr. Carrigan indicated that there was a loss of one Active Member in 1977-78, Hayes-Albion Corporation. He noted that Don International of Manchester, England joined as a Regional Member and that Implementos Metalicos Lara, S.A. of Barquisimeto, Venezuela joined as a Licensee. In addition, he reported that the Institute had received an inquiry from Borg & Beck de Mexico, S.A. concerning possible Regional Membership in the Institute. No action had been taken on such an application prior to the meeting. Questions were asked concerning other manufacturers and rebuilders using the FMSI numbers. One company mentioned was Uni-bond. They apparently manufacture shoes and it is indicated that they use FMSI numbers. It was suggested that anyone having literature on manufacturers, distributors or rebuilders using the FMSI numbers who are not purchasing from members, or in other fashion are not permitted use of the copyrighted FMSI numbers and systems, send the Institute printed material showing the unauthorized use of the Institute numbers. Mr. Comins asked concerning the Regional Members who are paying the same annual fee level as Active Members. The Secretary indicated that there were 6 such Regional Members:

Don International Limited, England
Francisco Stedile, S.A., Brazil
Friction Materials Corporation, Israel
Hemispheres International Manufacturing Company, Canada
Pasta Clutch, S.A., Mexico
Rusco de Colombia, Colombia

It was suggested that the Institute asterisk those Regional Members who are paying Active Member dues with rights to use the FMSI numbers for marketing their products in the United States. It was suggested that this was not enough but that it was more important to know what categories these Regional Members were reporting. The Secretary indicated that all were reporting one category except for Don International Limited who are involved in 3 categories--brake linings, brake blocks and clutch facings. It was indicated that some of these Regional Members, particularly Fras-Le of Brazil and Friction Materials Corporation of Israel may be participating in more than one category. It was suggested that the Office prepare a schedule showing exactly what categories Regional Members are reporting. The Secretary indicated that he would prepare this information for distribution to the Membership.

It was suggested that in the Institute directory, where Active Members, Regional Members and Committees are listed, that the Licensee Members also be included. In this fashion, members would know when they see printed information in the field that these members are paying the appropriate dues for their use. The Licensee listing will be added to the Institute directory.

Upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: To accept the report of the Membership Committee as written.

HISTORICAL SALES REPORTING

The Secretary reported on the Historical Sales program for the calendar year 1977. Actually a calendar year report is necessary because at the time of preparation of this report, data for the first quarter of 1978 had not been developed. The last information available at the time of preparing the report was that of December 31, 1977.

The Secretary indicated there were 16 Active Members that reported at least once in 1977. In addition, 2 Regional Members with rights of Active Members reported statistics during calendar 1977---Don International of England and Friction Materials Corporation of Israel.

Upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: To accept the report on the Historical Sales Reporting as written.

NOMINATING COMMITTEE REPORT

Mr. J. W. Greenen, Chairman of the Nominating Committee reported on its recommendations for nominations to the Board of Directors. The Chairman placed in nomination the following for the two year terms expiring on June 30, 1980:

Gordon A. Carrigan, S.K. Wellman Corporation
William Simon, Brassbestos Corporation
Stuart Comins, Auto Friction Corporation
Joseph W. Greenen, Nuturn Corporation

Other nominations were called for but none were made.

Upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: That nominations be closed.

The Secretary was directed to cast one ballot each for the election of Mr. Carrigan, Mr. Simon, Mr. Comins, and Mr. Greenen to the Board of Directors. The Secretary advised that ballots had been cast. Messrs. Carrigan, Simon, Comins and Greenen were elected as directors to serve until June 30, 1980.

The Chairman advised that the three directors who would complete the first year of their two year terms as of June 30, 1978 were:

Ronald L. Cutler, Abex Corporation
Ronald R. Moalli, Raybestos-Manhattan, Inc.
W. Max Sleeth, Lear-Siegler Inc.

The Chairman advised that Mr. W. H. Sleeth who had served as Director from Lear-Siegler Corporation was no longer affiliated with Lear-Siegler. Based on the Constitution and By-Laws a replacement to complete Mr. Sleeth's term is required. The Nominating Committee Chairman then presented the name of Mr. Francis Messier of Bendix Corporation to serve the unexpired term of Mr. Sleeth until June 30, 1979. Other nominations were called for but none were made.

Upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: That nominations be closed.

The Secretary was directed to cast one ballot for the election of Mr. Francis Messier to fill Mr. Sleeth's unexpired term on the Board of Directors. The Secretary advised that the ballot had been cast. Mr. Francis Messier was elected as a Director to serve until June 30, 1979.

Mr. Greenen advised that with the election of these candidates, and the continuation in Office of the Directors whose terms had not expired, the Board now consists of the required 7 members.

DATA BOOK & TECHNICAL COMMITTEE REPORT

Mr. Phil Grim of Abex Corporation is Chairman of the Data Book and Technical Committee. In Mr. Grim's absence the Secretary read his report. Please refer to Exhibit 8.

The Chairman's report covered items such as the disclaimer language in the catalogs, information on printing the 1978 catalogs, the Committee's interest in computerized type-setting for the Automotive Data Book, and the possibility of a publication of a new Brake Block Identification Catalog. In addition, the Chairman covered various technical matters and guidelines for the Institute. One item referred to was the 15 x 6 and 16-1/2 x 7 Cam brakes with hydraulic actuation. In Mr. Grim's report he indicated that GMC uses a "Hy-Power" booster for some trucks, and the cams are actuated by the hydraulic system. Mr. Baynes commented that the hydraulically acutated cam brakes are teamed with the "Hy-Park" system which is a hydraulic brake apply system with a spring-loaded parking brake. This "Hy-Park" package is now starting in production.

In Mr. Grim's report he thanked Mr. Ron Moalli who had served for some 12 years as Chairman of the Committee and who had provided the necessary leadership for this committee.

Upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: To accept the report of the Data Book and Technical Committee as written.

FMSI 02179

ASBESTOS STUDY COMMITTEE REPORT

Mr. H. H. Wagner of Carlisle Corporation, Chairman of the Asbestos Study Committee prepared this report. In Mr. Wagner's absence the Secretary read the report. Please refer to Exhibit 9.

Mr. Wagner reported on work that a Task Force from the Committee had completed on preparation of a work practices booklet concerning the handling of asbestos-containing fricton materials. Considerable progress had been made in the preparation of this booklet but it was noted that at the Board of Directors meeting on June 27, 1978 that the Board directed that the Task Force submit this booklet to the Asbestos Study Committee who would then make recommendations to the Board of Directors.

Upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: To accept the report of the Asbestos Study Committee as written.

Mr. Adrian Comins asked that the Institute consider the question of a possible recall of asbestos-bearing friction materials if such action were taken by the Consumer Product Safety Commission. Mr. Comins was concerned with the recall provisions of the Federal Hazardous Substances Act which the Consumer Product Safety Commission administers. If asbestos-bearing friction materials were to be recalled under the Federal Hazardous Substances Act, manufacturers would have to refund not only their distributors or rebuilders for the manufacturers' selling price but would have to pay shipping and packing costs of all those further down the line in the distribution network. He indicated that this was the bill that manufacturers would pick up for the Tris recall. He indicated that this could be a substantial cost should asbestos-bearing friction materials be recalled under the Federal Hazardous Substances Act. A question was raised as to whether product liability insurance would cover the costs of any such recall. It was not known whether this insurance would cover this type of recall. One member indicated that he didn't believe that there could be such a recall by the Consumer Product Safety Commission because he questioned whether the Consumer Product Safety Commission had jurisdiction over asbestos-bearing brake linings. Discussion on the Consumer Product Safety Commission problem was enlarged to include other Federal regulatory agencies including OSHA, EPA, etc. It was indicated that even if a government recall could not be supported by a rational review of scientific data, that in the existing environment, with pressures from environmentalists, the media, and some regulators, that a recall is still a possibility. Mr. Carrigan indicated that beryllium users have scientific data which would indicate that certain sections of the OSHA beryllium standards are unsupportable, but that regulations have nevertheless been adopted. Mr. Harris noted that the Asbestos Information Association has given outstanding service to manufacturers with valuable legal and medical information concerning the asbestos problem. He particularly suggested that friction materials manufacturers who are not members consider supporting and joining the Asbestos Information Association. The study that Dr. Jacko of Bendix had run for the Environmental Protection Agency was dicussed. In that paper Dr. Jacko attempted to quantify the amount of asbestos emissions into the atmosphere from brakes and clutches. That paper provided data that supported the view that the general public is not subject to excessive exposure to asbestos from vehicular brakes or clutches. A member commented that the basic area where asbestos is a problem is in the workplace and not in the general environment and he questioned whether asbestos-bearing brake linings could be considered a harmful consumer product, much less a hazardous substance.

Mr. Comins suggested that the Institute should ask for a hearing while the Consumer Product Safety Commission may be re-drafting rules on recall procedures. The Secretary advised that in 1977 Mr. Comins suggested that individuals write to the Consumer Product Safety Commission as regards recall procedures under the Federal Hazardous Substances Act. Mr. Comins was now asking that the Institute act as an organization to bring this question to the attention of the Consumer Product Safety Commission. The Secretary quoted from the minutes of the January meeting of the Asbestos Study Committee where Mr. Ed Fenner of Johns-Manville stated that there was litigation underway concerning whether aluminum wiring in a house is a consumer product. Also it was noted that there was a survey being made for the Consumer Product Safety Commission by Kearney Associates concerning asbestos-bearing products which might emit respirable asbestos and be covered by regulations of the Consumer Product Safety Commission. The Secretary indicated that he would check the status of the Kearney report and advise.

Mr. Comins stated that as regards individuals writing the CPSC, that to his knowledge no action had been taken by anyone, and that it would be necessary for the Institute to take an active role as regards Consumer Product Safety Commission recall procedures. One member indicated that his company was concerned about the possibility of Consumer Product Safety Commission action and had given serious consideration to the question of recall procedures. It was suggested that the Institute work through the Asbestos Information Association to call this problem to the Consumer Product Safety Commission's attention. In response to a question, the Secretary indicated that the Institute has good liaison with the Asbestos Information Association. Mr. Comins indicated that he was not satisfied with the Asbestos Study Committee's handling of the recall problem with the Consumer Product Safety Commission. After additional discussion Mr. Comins made a motion as follows:

RESOLVED: That the Friction Materials Standards Institute take an active role with the Consumer Product Safety Commission regarding the position of friction materials manufacturers as to recall procedures that could possibly affect asbestos-containing friction materials.

The motion was duly seconded. A count of the members indicated that there were 11 in attendance when this motion was put on the floor. Six members voted in favor of this resolution, with two opposed and three asbstaining. According to the Constitution and By-Laws, the resolution passed with a majority of those in attendance voting in favor of the resolution.

Mr. Comins indicated concern about non-asbestos bearing friction materials, and noted that there may be federal funds available for a project such as joint research to develop non-asbestos friction materials because of the alleged hazards of asbestos in the work place and environment. Mr. Comins suggested that the Institute seek federal funding to establish such a joint research project. It was asked if a joint research project would be legal and feasible. Were there anti-trust implications from this type of research? Several members indicated that their companies would not contribute either directly or indirectly to funding of such joint research.

Reference was made to a proposed New Jersey law which was scrapped about a year ago which proposed to ban the manufacture, use, or sale of any carcinogenic material, which included asbestos. If such a statute were to pass in one state it could effectively ban asbestos in brake linings throughout the United States. This proposed New Jersey statute was abandoned after it was realized that it would just about close down the manufacturing industry in New Jersey. Even if such a ban were feasible, even Dr. Selikoff has indicated that there are controls that can keep asbestos concentrations to non-harmful levels. Several delegates indicated that they were strongly opposed to any kind of joint research project for the development of a non-asbestos lining and this subject was then dropped.

BRAKE PERFORMANCE STUDY COMMITTEE

Mr. Nelson, Chairman of the Brake Performance Study Committee prepared his committee's report. Mr. Nelson could not attend this meeting and Mr. Ron Cutler of Abex read the report. Please refer to Exhibit 7.

The Chairman's report discussed items such as the Quality Control Program and recent moves in Washington and the courts concerning Federal Motor Vehicle Safety Standard 121 (air brake systems standard). The Chairman also discussed Standard 105-75 and contact with Mr. Fred Redler of the National Highway Traffic Safety Administration concerning Docket 1-4 (replacement brake shoe and lining assembly). He indicated that this docket was being reactivated and we could expect to hear more on it in the near future.

Mr. Nelson reviewed his discussions with Mr. Redler concerning projects that could effect brakes including such items as longer life friction materials, brake system inspectibility, and the up-grading of both the hydraulic and air brake systems standards. He also discussed AAMVA certification requirements and activities of the Vehicle Equipment Safety Commission. He noted that the Institute had been in contact with the Defense Supply Agency concerning the proposed federal brake lining specification HHL-361E, and that the Defense Construction Supply Center indicated that the revision E variation of this specification calling for full dynamometer tests was not satisfactory. They indicated agreement with the Institute position about the unworkability of Revision E. The Defense Construction Supply Center is now working on a Revision F which it is hoped will include some of the suggestions that the Institute made over the past year.

In reading Mr. Nelson's report, Mr. Cutler commented on the Quality Control Program where he asked for some feed-back concerning work of the Quality Control Sub-committee. It was asked if members had been implementing suggestions of the Quality Control Program. One member indicated that they had reviewed the Institute Quality Control Program and strengthened their own program with some of the recommendations. Another indicated that they had installed a Quality Control Program featuring recommendations in the Quality Control Program.

Upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: To accept the report of Brake Performance Study Committee as written.

PUBLIC RELATIONS COMMITTEE REPORT

The Secretary read the Public Relations Committee Report. Please refer to Exhibit 12.

The Secretary reported that Mr. Ernie Rysso of Hayes-Albion Corporation had been Chairman of the Public Relations Committee. As Hayes-Albion withdrew from the Institute, the Secretary gathered information for the report for the year. In summary, the only release for the 1977-78 year was the election of Officers at the June 1977 Meeting. There was additional publication in late 1977 in trade journals concerning the Institute's recommended procedures for reducing asbestos dust during brake servicing, which release had been reported at the June 1977 Meeting.

Upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: To accept the report of the Public Relations Committee as written.

INTRODUCTION OF OFFICERS

Mr. Messier, President advised the members on the election of Officers at the Board of Directors Meeting. Officers who had been re-elected to serve from July 1, 1978 through June 30, 1979 were:

President:	Francis E. Messier Bendix Corporation, Automotive Aftermarket Operations
Vice-President:	Ronald R. Moalli Raybestos-Manhattan, Inc., R/M International Division
Treasurer:	William F. Messier Bendix Corporation, Friction Materials Division
Secretary:	Edward W. Drislane Friction Materials Standards Institute

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There being no other business being brought to the attention of the Membership, upon motion duly made, seconded and unanimously passed, it was;

RESOLVED: To adjourn.

Adjourn: 10:30 A.M.

FMSI 02183