LEAD INDUSTRIES ASSOCIATION, INC.
292 MADISON AVENUE
NEW YORK 17, N.Y.

SUBJECT TO REVISION

INDUSTRY DEVELOPMENT COMMITTEE MEETING MINUTES

New York, N.Y. July 10, 1962

A meeting of the Industry Development Committee of the Lead Industries Association, Inc. was held on Tuesday, July 10, 1962, at the Sixty East Club, New York, N.Y.

PRESENT	REPRESENTING
J. J. Lennon	American Metal Climax, Inc.
J. S. Smart, Jr.	American Smelting and Refining Co.
F. H. Burless	Anaconda Sales Co.
C. A. Larson	The Bunker Hill Co.
I. L. Barker	Cerro Corp. (Representing Cerro Sales Corporation)
A. O. Wolff	The Consolidated Mining and Smelting Co. of Canada Limited
O. M. Levyns	International Selling Corp. (Agents: Soc. Miniere & Metallurgique de Penarroya)
C. R. Ince	St. Joseph Lead Co.
H. W. Halton	C. Tennant Sons & Co. (Agent: The Broken Hill Associated Smelters Pty. Ltd.)
C. H. LaFevre	United States Smelting Refining and Mining Co.

OTHER MEMBERS

R. D. Taylor	American Smelting and Refining Co.
W. O. Hewitt	The Bunker Hill Co.
Robin Hitchcock	Consolidated Zinc Corp.
Carl Hack	National Lead Co.
R. J. Searle	Newmont Mining Co.
John Englehorn	St. Joseph Lead Co.

OTHERS

L. S. Goodfriend	Lewis S. Goodfriend & Associates
Paul Higgins	O. S. Tyson and Co.

Look Ahead with Lead

L.I.A. STAFF

Robert L. Ziegfeld, Executive Vice President, Secretary-Treasurer
David M. Borcina, Assistant to Secretary
Bruce Fader, Manager, Technical Services
Don Fowler, Director, Health and Safety
Edwin D. Martin, Architectural Consultant

EXPANDED RESEARCH PROGRAM STAFF

Schrade F. Radtke, Director of Research
Sam E. Eck

The chair was occupied by the President of the Association, Mr. C. R. Ince, who called the meeting to order at 9:40 A.M.

The Secretary reported a quorum was present, and the Assistant to the Secretary kept the minutes.

The minutes of the previous meeting of April 7, 1962, were approved.

ESTABLISHMENT OF HEALTH AND SAFETY COMMITTEE

At the request of the Chairman, the Executive Vice President reported that the Board of Directors of L.I.A. had approved the establishment of a Health and Safety Committee composed of qualified representatives of the member companies.

As a result, he stated, invitations were extended a few days ago to several representatives of member companies to serve on this Committee and acceptances had been received so far from the following individuals:

Kenneth W. Nelson, Director, Department of Hygiene, American Smelting and Refining Co.

Frank Princi, M.D., Kettering Laboratory of Applied Physiology, University of Cincinnati, College of Medicine, Medical Director, Ethyl Corp.

The Executive Vice President reported that L.I.A.'s Director of Health and Safety, Don Fowler, would serve as Secretary of the Committee and that shortly members would receive an invitation to nominate qualified people in their organizations to serve on it.

KETTERING LABORATORY SYMPOSIUM ON LEAD

The Executive Vice President reported that the Association had received a request for financial support not to exceed $3,000 to sponsor a three day symposium on lead poisoning to be conducted in January or February, 1963, under the supervision of Dr. Robert A. Kehoe, Kettering Laboratories, University of Cincinnati Medical School.

It is expected that the Kettering Laboratory Symposium on Lead will present the latest health data to a national group of invited participants. It will be designed to present and publish developments in the toxicology and air hygiene of lead that have occurred since their last symposium held some seven or eight years ago.

The Executive Vice President further reported that the duPont Co. and the Ethyl Corp. have agreed to join L.I.A. in the financial sponsorship of this meeting on an equal basis. He further reported that it was the consensus of the various groups involved in the conduct of the symposium that it was of the utmost importance in view of the California anti-smog developments, that such a meeting be held in the near future.

After some discussion, a motion was made, seconded and unanimously approved that the Association participate in the Kettering Symposium on Lead to the extent of a maximum expenditure of $3,000.

In reply to a question, the Executive Vice President stated that the necessary funds for the Symposium would be included in the 1963 budget of L.I.A.

STANFORD RESEARCH INSTITUTE RESEARCH PROPOSAL

At the request of the Chairman, the Research Director then reported that he had submitted a research proposal received from Stanford Research Institute for a study on the "Variation of Atmospheric Lead Concentration and Type with Particle Size" to the members of this Committee and the Technical Steering Committee simultaneously on June 15, 1962 for letter ballot, after approval by the Chemical Subcommittee. The Research Director stated that the total cost of the proposed research was $84,000 for a 15 month period to be shared equally, $28,000 each, by the duPont Co., Ethyl Corp., and the Expanded Research Program of L.I.A.

The results of the letter ballot, the Research Director reported, from members of the Committee as well as members of the Technical Steering Committee, were favorable. No new monies, he reported, would be necessary as the approved funds, $28,000 would be allocated from E.R.P. Undesignated Research Fund.

Health and Safety Committee's Responsibility

The Chairman with the approval of the Committee then outlined the responsibilities and operational procedure of the Health and Safety Committee with respect to the Stanford Research Institute proposal and future research activities dealing with health and safety problems as follows:

1. The Health and Safety Committee will review all research projects dealing with health and safety and present their recommendations to the Technical Steering Committee.

2. The L.I.A. Director of Health and Safety will serve as Secretary of the Health and Safety Committee and will supervise all research projects involving health and safety.

3. The Chairman and/or the Secretary of the Health and Safety Committee will serve as an ex-officio member of the Technical Steering Committee and the Chemical Subcommittee. Similarly, the Chairman of the Chemical Subcommittee will serve as an ex-officio member of the Health and Safety Committee.

EFFECT OF LEAD CHEMICALS ON COTTON FIBERS

The Research Director reported that he had received a research proposal entitled "Exploratory Investigation to Impart Special Properties to Cotton through the Use of Lead Compounds" from the U.S. Department of Agriculture, Agriculture Research Service, New Orleans, La. The cost to the Expanded Research Program would be $10,000 with the Government providing another $15,000. He further stated that $5,000 had been approved on the 1962 budget and therefore another $5,000 from E.R.P. was necessary and could be taken from the Undesignated Research Fund.

He further reported that the Chemical Subcommittee had approved the additional $5,000 to be taken from the Undesignated Research Fund and that the membership of the Technical Steering Committee and this Committee had concurred by means of letter ballots submitted to members of both committees on June 15, 1962.

REPORT ON THE PRODUCTION OF A MOTION PICTURE

The Chairman reported that the Executive Committee composed of Messrs. Ince, Lennon and Smart had reviewed the script of a sound and color motion picture on lead prepared by L.I.A.'s advertising agency, O. S. Tyson and Co. Inc., and requested Mr. Smart to report for the Committee. The approximate cost of the film would be $50,000. Mr. Smart then stated that the Committee was in full agreement that the script was very well done. The Committee felt, however, that the production of this movie be set aside this time for reactivation at a later date. They further suggested that some consideration be given at this time for a shorter motion picture film on sound attenuation or another appropriate subject.

The Executive Committee therefore recommended, and the full Committee concurred, that the Executive Vice President allocate in his 1963 budget recommendation the sum of $25,000 for a film on sound attenuation or as a reserve for the movie on lead in general.

LEAD FOR SOUND ATTENUATION

The Research Director reported on the progress of research on lead for sound attenuation stating that since distribution of the research report entitled "Applications of Lead and Lead Products in Architecture and Industry for Noise Control" sent to Committee members on May 23, 1962, 15 additional panels incorporating lead had been recommended for tests. He reported that the research contractor, Lewis S. Goodfriend & Associates, Inc. was now preparing these additional panels for tests at Riverbank Laboratories and that he expected that these additional data would probably be available some time in September.

The Research Director further reported that in these additional tests, emphasis was being given to incorporating lighter weight lead in various panels including metal stud partitions, the use of which is growing in importance.

After some discussion, the Committee was in full agreement with the need for additional tests.

The Chairman then asked for comments on the technical aspects of the report which were presented as follows:

1. It was agreed that some attempt should be made to explain "decibel" ratings more understandably to architects and others in the construction industry.

2. A better method should be used to explain how and why lead performs as a sound attenuating material.

3. The economics of using 8 lb. lead would weigh heavily against its successful application except for very special conditions.

The research contractor pointed out that architects and others in the construction industry are, in general, knowledgeable about "decibel ratings" and that a 40 decibel transmission loss rating for a panel is acceptable to architects and the construction industry.

Methods of publishing the technical data were then discussed and the Committee agreed that perhaps three publications would be desirable, each to be prepared for a specific audience. In general, the recommendations were as follows:

1. A general treatment booklet for distribution to laymen interested in sound attenuation.

2. A semi-technical booklet for wide distribution to architects and the construction industry.

3. Complete technical manual including the Appendix for distribution to acoustical engineers, professors of acoustics at universities, component manufacturers of sound attenuating panels, and acoustical research organizations. Also to others specifically requesting the complete technical report.

The Executive Vice President reported that his staff would proceed with the writing of the Manual immediately, incorporating the additional test data now being developed as it is made available to him.

In the discussions these points were brought out:

1. It is important to provide detailed information on how to avoid flanking paths.

2. It is difficult to appraise the market because of the complex factors determining the balance between cost and performance.

3. As experience is gained through contact with areas of utilization, market appraisal can be derived based on experience.

4. At present commercial applications appear to be most favorable.

5. Market development will probably require many years.

6. Availability of lead products at lowest possible cost will aid in developing markets.

7. A training program for technical sales personnel may be desirable when general promotion draws near.

FIELD TESTING OF LEADED PANELS

The Research Director reported on discussions he had in company with L.I.A.'s Architectural Consultant, with Urie Bros. who are planning a new hotel. The discussion indicated that Urie Bros. may be willing

to cooperate in a field trial application of leaded panels and as a preliminary step are sending their construction drawings of the hotel to him.

The Research Director expressed a need for experimental field installations such as this and others. The Committee agreed that such tests were desirable and necessary and recommended that full information and costs be submitted as the occasions arose.

NEXT MEETING DATE

It was generally decided that the next meeting be held on Wednesday, November 28, 1962.

There being no further business, the meeting adjourned at 2:50 P.M.

/s/ David W. Bowman
Assistant to Secretary

DWB:HDM