

Lead Industries Association, Inc.

292 MADISON AVENUE

NEW YORK 17, N.Y.

Enclosed is the report of the
Committee on the Health and Safety
of the Lead Industry, as requested
by the Board of Directors at the
Annual Meeting held in New York
City, December 1962.

Don G. Fowler
Director of Health and Safety

March 7, 1963

Clifford G. Grulee, Jr., M. D.
Dean, College of Medicine
University of Cincinnati
Cincinnati 19, Ohio

Dear Dean Grulee:

At its regular meeting on February 26, 1963, the Health and Safety Committee of the Lead Industries Association voted unanimously, and directed its Secretary, to send a message of commendation to you, and through you to the staff of the Kettering Laboratory for their efforts in arranging and conducting the Lead Symposium. The program content, as well as that of the individual papers, was excellent, and the arrangements for comfort and convenience of those attending the symposium were outstanding.

We feel that you and your staff at Kettering merit our highest praise on the successful conclusion of the Lead Symposium.

Very truly yours,

Don G. Fowler
Don G. Fowler
Secretary

107124



Lead Ahead with Lead

LEAD INDUSTRIES ASSOCIATION, INC.

282 MADISON AVENUE

NEW YORK 17, N. Y.

AGENDA

MEETING OF
HEALTH AND SAFETY COMMITTEE
Cincinnati Club, Cincinnati, Ohio
February 28, 1963

1. Approval of minutes of previous meeting of November 13, 1962.
2. Election of new Chairman.
3. Progress report on Kettering Project "Human Exposure to Ambient Air Concentrations of Particulate Lead."
4. Progress report on S. R. I. project "Variation of Atmospheric Lead Concentration and Type With Particle Size."
5. Review of status of Kettering Laboratory study on lead release from dinnerware glazes.
6. Discussion of Possible publication of abstracts of world literature on lead toxicology.
7. Research proposals on toxicity of paint films containing lead.
8. Research proposals on screening new organolead compounds for toxicity.
9. Other business.

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March 1, 1963

PERSONNEL OF THE L. I. A. HEALTH AND SAFETY COMMITTEE

Mr. Donald R. Diggs
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Petroleum Chemicals Division
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W. E. George, M. D.
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Research & Development Division
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T. E. McGraw, M. D.
Medical Director
The Electric Storage Battery Company
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Mr. Kenneth W. Nelson, Director
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American Smelting and Refining Company
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Salt Lake City 4, Utah

Mr. William M. Pallies
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Sherman S. Pinto, M. D.
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Frank Princi, M. D.
Medical Director
The Ethyl Corporation
c/o Kettering Laboratory
University of Cincinnati
College of Medicine -- Eden Avenue
Cincinnati 19, Ohio

Mr. Kurt Raht, Research Engineer
Research and Development Division
The Consolidated Mining & Smelting
Company of Canada Limited
Trail, B. C., Canada

J. A. Taylor, M. D.
Medical Director
Delco-Remy Division
General Motors Corporation
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Anderson, Indiana

Mr. Francis X. Vorden
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STAFF

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Lead Industries Association, Inc.
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New York 17, New York

Dr. Schrade F. Radtke
Expanded Research Program of L.I.A.
292 Madison Avenue
New York 17, New York

cc: Dr. Y. E. Lebedeff
American Smelting & Refining Company
South Plainfield, New Jersey

Mr. R. L. Ziegfeld

LEAD INDUSTRIES ASSOCIATION, INC.

182 MADISON AVENUE

NEW YORK 17, N. Y.

HEALTH AND SAFETY COMMITTEE MEETING MINUTES

Cincinnati Club
Cincinnati, Ohio

February 26, 1963

The meeting was called to order by Mr. E. E. Besselberg,
Chairman, at 9:30 a.m.

PRESENT

F. Princi
J. A. Taylor
D. R. Diggs
K. Raht

V. M. Pallies
T. E. McGraw
K. W. Nelson
E. E. Besselberg

REPRESENTING

Ethyl Corporation
Delco-Remy
E. I. duPont de Nemours & Company
Consolidated Mining & Smelting
Company of Canada Ltd.
Electric Storage Battery Company
Electric Storage Battery Company
American Smelting and Refining Co.
Ethyl Corporation

L.I.A. STAFF

R. L. Ziegfeld, Executive Vice President, Secretary-Treasurer
G. Bilek, Project Manager, Expanded Research Program of L.I.A.
D. G. Fowler, Director, Health and Safety

GUEST

D. S. King, General Counsel, National Paint, Varnish & Lacquer Association

The minutes of the previous meeting were approved as written.

PROGRESS REPORT ON KETTERING PROJECT, LC 75, "HUMAN EXPOSURE TO AMBIENT AIR CONCENTRATIONS OF PARTICULATE LEAD"

The secretary reported that due to technical difficulties a contract with the laboratories has not yet been signed. However, the exposure phase of the project has almost been completed and the work is now in the follow-up and revision stage, which will take another eight or nine months.

PROGRESS REPORT ON S. R. I. PROJECT, LC 69, "VARIATION OF ATMOSPHERIC LEAD CONCENTRATION AND TYPE WITH PARTICLE SIZE"

Mr. Diggs reported on the meeting of the project steering committee which took place on January 30, 1963 at Stanford, during which two representatives of the California Department of Public Health were present and contributed to the discussion. We placed this work at a California location to enable us more easily to interest California people in the study, and since

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it has a potentially direct application to the present situation there, we were most pleased that their technical representatives attended the meeting and have, we believe, a sense of participation in the project. This was of course our intent.

A brief discussion of the feeling now existing on the West Coast in regard to an ambient air standard for lead was entered into, and it was our general impression that such a standard will be promulgated as soon as the State Health Department feels it has accumulated sufficient technical background material.

The status of the project at this time is that it is still concerned with the analytical phase and probably will not be ready for field sampling until April. The project steering committee will meet with Stanford representatives to determine the nature and extent of the field sampling program before such a program starts.

PROGRESS REPORT ON KETTERING LABORATORY STUDY OF LEAD RELEASE FROM DINNERWARE GLAZES

The laboratory phase of this study has been completed, with the possible exception of repeat testing of results which are in question. We are now awaiting the write-up of the test methods which, when completed will be submitted to ASTM with the intent to incorporate them as provisional standards. When this has been completed, it is planned to prepare a summary report and to have Dr. Kehoe deliver this report in person to representatives of the California Department of Public Health, who are concerned about marketing lead glazed dinnerware in their state.

DISCUSSION OF ABSTRACTS OF THE WORLD LITERATURE ON LEAD HYGIENE AND TOXICOLOGY

This discussion was continued from the last meeting when no agreement was reached on the subject. There was considerable expression of opinion regarding the value of abstracts of world literature to physicians, medical schools, industrial hygienists, and others. It was agreed that plain, uncritical abstracts were of little value and might possibly be harmful by resulting in confusion. Therefore, the consensus of opinion was that if a regular publication of a critical review of the world literature, perhaps on an annual or semi-annual basis, could be prepared this committee feels that it would be a valuable L.I.A. project.

A motion was made, seconded, and unanimously approved that a critical annual review of the literature on lead hygiene and toxicology be published by L.I.A. for distribution to industrial physicians, selected hospitals, medical schools, and industrial hygienists.

The secretary was directed to contact the Kettering Laboratory in order to determine what is involved in the preparation of such a critical review and to further investigate its practicality.

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The committee unanimously agreed that the present publication of the Lead Development Association entitled "Lead Abstracts" should not be the vehicle for a dissemination of toxicological abstracts. Mr. Ziegfeld was requested to so inform the Lead Development Association.

DISCUSSION OF RESEARCH PROPOSALS ON TOXICITY OF PAINT FILMS CONTAINING LEAD

Mr. Dan Ring of the National Paint, Varnish, & Lacquer Association was present to brief the committee on the present status of the problem involving poisoning cases among small children in sub-standard housing. The work of the A.S.A. Z-66 committee, which has resulted in a specification limiting the amount of lead to 1% of the total pigment in paints designed for interior use, was reviewed and the committee was informed that the 1% limitation specified by the Z-66 Standard has no foundation either factually or experimentally. Therefore, it is our objective to conduct a series of tests in a toxicology laboratory for the purpose of evaluating paint, as the film, in an attempt to determine the actual hazard of ingestion. For this reason two research proposals have been obtained and sent to the committee members for their consideration (Industrial Hygiene Foundation of America, Inc., December 17, 1962 and Industrial Bio-Test Laboratories, Inc., February 4, 1963). Mr. Ring pointed out that the end result desired by our paint film test would be to gather sufficient facts so that we could present them to government agencies having jurisdiction, with the intent of changing and relaxing the lead paint standard.

Mr. Nelson suggested that before the paint films are used in toxicology tests, their solubility should be determined. This was accepted and agreed to by the committee and such tests will be incorporated in the program when it is approved.

It was the unanimous opinion of the committee that a testing program of the nature of those listed in the two proposals already received, with the addition of solubility screening, be carried out with the objective of changing the present standard. To this end, additional research proposals from other laboratories, and additional discussions will be necessary before specific proposals can be presented to the committee for approval.

DISCUSSION OF RESEARCH PROPOSALS ON SCREENING NEW ORGANOLEAD COMPOUNDS FOR TOXICITY

There are now two such proposals before the committee for its consideration. One from the Industrial Hygiene Foundation has already been sent out and the other from the Industrial Bio-Test Laboratories was distributed at the meeting. There was a considerable discussion of the needs which should be satisfied by screening tests on the organolead compounds which are under consideration here. It was recommended that due to the potential toxicity of these lead compounds, all should be subjected to a range-finding test as a minimum, since all of these compounds will be used and subjected to various laboratory evaluations by technical people in various laboratories, very few of whom will have special knowledge of the potential toxicity of organolead materials. It was further recommended that a minimum test, of the type submitted for consideration by the Industrial Bio-Test Laboratories, should be

made for each material in which there is a commercial interest. The secretary was requested to obtain additional proposals from other laboratories covering this series of tests. One such laboratory suggested is the Woodard Research Laboratory at Herndon, Virginia.

THE KETTERING LEAD SYMPOSIUM

The Chairman mentioned that the Lead Symposium, which most of the members had attended this week, was jointly sponsored by DuPont, Ethyl, and L.I.A.

A motion was made, seconded, and unanimously passed directing the secretary to send a letter to Dean Grulee of the University of Cincinnati Medical School expressing the committee's appreciation for the high standard in the symposium content and the excellent physical arrangements (copy of the secretary's letter and Dean Grulee's reply are attached).

DISCUSSION OF WATER POLLUTION AND LEAD

Mr. Hesselberg mentioned that the Ethyl Corporation has for some years been monitoring its waste waters for lead concentration. They have also accumulated some very interesting data taken from waters from various parts of the country. Several members expressed interest in these data, and it was felt that such data are of value in representing the facts of a situation and to combat allegations and potential claims. Mr. Hesselberg offered a selection of their data for the committee and several other members have also offered to determine if they have data which may be of interest to the committee.

PILOT STUDY OF THE EFFECT OF LEAD ACETATE AS A RADIOPROTECTIVE AGENT

Dr. Princi submitted to the committee for their consideration the results of a pilot study which he had asked Dr. Wagner of New York University Medical School to make for him. No discussion of the study was held at this time, but committee members are requested to review the pilot study and to express an interest, if there is such an interest, in pursuing the subject. As one may see, the intent of this study is to find a positive benefit from the use of lead in a medical procedure.

ELECTION OF NEW CHAIRMAN

Mr. Hesselberg announced with regret that, due to a reassignment of function in his company, he is resigning from the chairmanship and the committee. His place on the committee will be taken by Mr. James E. Hught.

Mr. Kenneth W. Nelson was nominated and unanimously elected Chairman.

NEXT MEETING

The next meeting will be held at the call of the chair.

There being no further business, the Chairman adjourned the meeting at 12 Noon.

Don G. Fowler, Secretary