

LEAD INDUSTRIES ASSOCIATION

433 LEXINGTON AVENUE

NEW YORK 17, N. Y.

METALLIC LEAD PRODUCTS DIVISION

METALLIC LEAD PRODUCTS DIVISION

Chicago, Illinois

April 24, 1950

A meeting of the Metallic Lead Products Division of the Lead Industries Association was held on April 24, 1950, at the Drake Hotel, Chicago, Illinois, at 11:30 A.M.

PresentRepresentingMembers of the Division

W. B. Clancy
S. D. Strauss
J. B. Haffner

J. A. Stone
W. F. Hurdock
Burton Shupp
A. M. Callis

A. P. Knapp
W. P. Carroll
A. H. Drewes
Randolph Charrington
C. R. Ince
F. E. Tormser
G. H. LeFevre

W. C. Page

American Smelting & Refining Co.
Bunker Hill & Sullivan Mining & Concentrating Co.
Division Lead Co.
Eagle-Richer Co.
Federated Metals Division of American Smelting & Refining Co.
Knapp Mills, Inc.
National Lead Co.
North American Smelting Co.
St. Joseph Lead Co.
United States Smelting Refining & Mining Co. Inc.

Guests of the Division (Association members)

Clarence Glass
J. S. Bers
E. H. Anderson
J. P. Ruth
Dr. J. C. Johnstone
L. S. Somers
W. C. Roddy
Rudolph Spitzer
J. H. Novasol

Anaconda Sales Co.
Bers & Co. Inc.
Ethyl Corp.
The Hidden Co.
Hammond Lead Products Inc.
Imperial Type Metal Co.
Metals Refining Co.
Metro Smelting Co.
Victory White Metal Co.

Guests of the Division (Non-Association)

Jens Jensen

Ford Oreille Mines & Metals Co.

Robert L. Ziegfeld, Secretary-Treasurer
David M. Norcina
Kampton W. Roll



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The meeting was called to order by Chairman Randolph Charrington at 11:30 A.M.

The chairman requested the secretary of the Association, Robert L. Ziegfeld, to report on the activities of this Division.

After a few brief remarks, in which the secretary regretted the absence of Mr. Homer C. Yetman, who was attending the Texas Master Plumber's Association Convention, he called for a report of the activities in the chemical construction field, which was presented by Mr. Kampton H. Roll of the Association's staff. (attached as Exhibit A)

The secretary then requested a report of the activities in the plumbing and water works field, which was presented by Mr. David M. Bortina, also of the Association's staff. (attached as Exhibit B)

General discussion followed relating to the intensified competition which lead is facing in the plumbing and water works field and there was a general feeling that an expansion of the Association's activities along those lines might be in order at this time. It was the feeling of those present that the matter should be referred to an early meeting of the Advisory Committee of this Division with particular reference to adding field men to the staff. The secretary estimated that each additional field man would add about \$10,000 a year to the cost of the program.

The chairman then requested discussion on mixed metals. The subject of a promotional campaign on type metal was discussed but it was the feeling of the group that such a program would be expensive and the volume is probably not sufficient to justify such a program.

The chairman then suggested that solder composition marking be considered. After some discussion it was the consensus of opinion that this subject be further considered by the Advisory Committee.

The meeting adjourned at 12:30 P.M.

Robert L. Ziegfeld
Secretary

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Exhibit A

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**REPORT OF ACTIVITIES IN THE CHEMICAL CONSTRUCTION FIELD
UNDER THE DIRECTION OF EUGENE H. POLL**

SCOPE

Our phase of Metallic Lead Products Division promotional work is aimed primarily at furthering the use of metallic lead in the chemical and related industries. Here are some of the programs that have been undertaken and the reasons why. Probably the most important reason is this: Lower corrosion resistant materials have in too many instances replaced lead.

1. Other materials are able to compete costwise.
2. Newer processes using higher operating temperatures and pressures require materials having better physical characteristics.
3. Younger engineers today are specifying the materials to be used for handling corrosives. Many of them are comparatively unfamiliar with lead, an old-timer in this field. For example, we know there are some engineers who do not know what a homogeneous bonded lining is.

Thus, it would appear that there is a real need for promotional work in this field; promotion basically educational in nature.

PROGRAMS ADOPTED

Several programs are being followed, some long established and some more recently initiated.

1. Chemical Bulletins. Twelve Chemical Bulletins are being issued annually to members only. These covers:
 - a. Detailed uses of lead in various chemical processes.
 - b. Specific technical and economic data about materials of construction that are or may become competitive to lead.
 - c. New developments involving the use of lead in chemical and related industries.
 - d. Reprints of chemical articles from the technical literature that are especially pertinent to the activities of members of the Association or useful to their sales managers.
2. Lead Chemical Construction Bulletins. These are printed bulletins, the first two of which were issued this year. They comprise:
 - a. Reprints of pertinent technical articles, i.e., Corrosion Forum series reprinted from Chemical Engineering, "Physical and Corrosion Characteristics of Lead in the Chemical Industry," reprinted from Corrosion.

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- b. Articles prepared by the Association surveying the use of lead in specific processes, i.e., by-product sulphur dioxide purification and recovery, phosphoric acid manufacture, methods and equipment for controlling air pollution by sulphur dioxide and sulphur trioxide.

Lead Chemical Construction Bulletins are prepared for both member and nonmember use and are sent to a selected mailing list made up of individuals in:

- a. Colleges and universities offering degrees in chemical engineering and who are accredited by the American Chemical Society and the American Institute of Chemical Engineers.
 - b. Chemical construction companies.
 - c. Professional consulting chemical engineers.
 - d. Corrosion experts and other individuals in the employ of the more prominent chemical and petrochemical companies.
3. Educational Lectures. We are prepared to present slide illustrated lectures before student or other groups interested in the use of metallic lead in industry. On March 28, 1950 a two-hour, slide-illustrated lecture was delivered before 110 graduate engineering students at the Newark College of Engineering, Newark, New Jersey. The lecture covered the technology and industrial significance of lead.

It is possible that such lectures may be presented under the auspices of the Chemical Educational Division of the American Chemical Society.

GENERAL PROMOTIONAL ACTIVITIES IN CHEMICAL FIELD

In addition to educational efforts of a more technical nature directed toward specific groups, promotional work more general in nature but still concerned basically with the proper use of metallic lead in industry is also being carried out.

1. Magazine Articles. Semi-technical and general articles prepared by the Association and published under its name appear and are scheduled to appear in several well-known technical magazines. These include:
 - a. The Corrosion Forum series in Chemical Engineering to which the Association has contributed since 1945.
 - b. An article entitled "Controlling Corrosive Wastes and Air Pollutants with lead," scheduled to appear in a future issue of Chemical and Engineering News, an official publication of the American Chemical Society.
 - c. The Association participated last year and will do so this year in the presentation of the Annual Materials of Construction Review published by Industrial and Engineering Chemistry Magazine.

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2. Participation in Technical Society Activities. Another important activity of the Metallic Lead Products Division of the Association is participation in the programs of various technical societies and organizations. By invitation (in some cases stemming from suggestions made on our part) we have participated in:
 - a. The program of the 1949 annual convention of the National Association of Corrosion Engineers in Cincinnati. A paper was presented entitled, "Physical and Corrosion Characteristics of Lead in the Chemical Industry," which was later published by N.A.C.E. in their official magazine, Corrosion.
 - b. He spoke as part of a panel symposium before a group interested in the chemical phases of air pollution. The program, held in New York on March 28-31, 1950, was sponsored by the Greater New York Safety Council and American Industrial Hygiene Association. We discussed and illustrated with slides equipment used for controlling pollution by sulphur dioxide and sulphuric acid mists, all using lead.

METALLIC LEAD PROMOTION NOT IN THE CHEMICAL FIELD

Much effort is expended in regular promotional activities conducted by the Association and it is natural that over-lapping of interests takes place.

1. Magazine Articles.

- a. Popular articles on both chemical and general applications for metallic lead are prepared regularly for the Association's publication, Lead.
- b. Similar articles are submitted to other magazines, i.e., Automotive Industries, October 15, 1949, "Metals in Automobiles," Metal Finishing, January, 1949, "Decorative Finishes for Lead."

2. Special Reports. During the past year, special reports on metallic lead products or products affecting the use of metallic lead were issued. These will continue to be issued as the need arises. They include:

- a. Reports on the consumption and future requirements of lead by all branches of the Atomic Energy Commission.
- b. Reports on research activities on storage batteries conducted by the Battery Branch of the U. S. Army Signal Corps.
- c. Reports on the possible competitive positions of: 1) nickel-cadmium battery, 2) Silvercel battery, and 3) railroad roller bearings.

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Exhibit B

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REPORT OF ACTIVITIES IN THE PLUMBING AND WATER WORKS FIELD
UNDER DIRECTION OF HENRY D. KOSKINEN

I think Bill Readey's paper yesterday was an excellent description of what we are up against in the plumbing and water works field.

I have with me a few advertisements of copper companies that have just appeared in the trade press pushing the use of their material for plumbing, soil waste and vent lines. This is a comparatively new threat to our business.

Here are some of the things we are doing to meet the conditions described by Mr. Readey.

Homer Yetman our one and only field man is constantly working with code committees to see that our material is given as much of a break as all other materials. An example of this type of work and what it entails is the situation in Denver, Colo. We have been working with our members there for over a year to keep lead required by the code. One of the means we used to do this was to provide one of our members with a list of plumbing inspectors, whom we knew were partial to lead. We suggested he contact this group asking their opinions about lead installations. As a result 33 excellent letters were received and these were bound, notarized and presented as evidence at the plumbing code hearing. We are now writing these inspectors asking their permission to use these letters as we see fit.

Mr. Yetman has also represented us on all of the National Plumbing Code Committees and what is more important has prepared suggested amendments to these National Codes that when and where adopted will prove beneficial to us.

We have also sponsored a corrosion study of waste pipe materials which was conducted by the Chief Plumbing Inspector at Fort Worth, Texas. This study proved lead was outstanding in resisting the corrosive atmospheres customarily found in the plumbing system. From the data developed we prepared a paper which was presented at the last meeting of the American Society of Sanitary Engineers. This paper was to be presented by Plumbing Inspector Kane but at the last minute a substitute had to be found and one of our good friends from Chicago did the job for us.

Copies of this study have been circulated to all cooperating members and are being freely circulated throughout the trade by the Association.

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The resumption of "Plumbers' Forum" after a lapse of over a year will be of considerable help to us. The first issue, which was mailed about two weeks ago has already resulted in this considerable number of inquiries I have here almost all of which are asking for the test report.

If we are to maintain and increase the use of our material in this field it is absolutely imperative that plumbing apprentice training classes include lead work in their course of study. To do this we are working in close cooperation with the Apprentice Training Service of the Department of Labor. With the help and cooperation of our members we are offering, through A.T.S. field men and our own publicity, to supply these training classes with lead at the lowest possible cost to them.

In this connection too, the resumption of publication of our magazine "Plumbers' Forum" will help considerably. Each issue contains a practical article on lead work that the classes find of especial interest.

We are keeping in close touch with the Public Housing Program and literature will be prepared and sent to all architects handling these jobs and also to local housing authority officials. This year, for the first time, we will exhibit lead at the meeting of the National Association of Housing Officials. This meeting will be held in Detroit in October. Our members are kept informed of all cash grants by the Government for these projects in Bulletins sent out by our office.

We are also called upon occasionally to serve on various committees having to do with lead and its uses. The latest example of this is our participation in the preparation of a lead welding chapter for the Welding Handbook published by the American Welding Society. The same Society has just asked us to help in the preparation of a chapter on soldering for the Brazing Handbook now in process.

Innumerable requests for help are constantly being received by telephone and letter from architects, engineers, plumbers and sheet metal workers, all of which are handled promptly and as accurately as possible.

In conclusion, Homer Yetman asked me to extend to you his regrets at not being here but he felt his attendance at the Texas Master Plumbers convention was very important at this time and lastly, we wish to thank our members for the help and guidance they have extended to us in this Division.