

LEAD INDUSTRIES ASSOCIATION

430 MADISON AVENUE

NEW YORK 17, N. Y.

METALLIC LEAD PRODUCTS DIVISION

July 2, 1951

MEMORANDUM
TO: DIRECTOR
FROM: DIVISION

METALLIC LEAD PRODUCTS DIVISION

New York, N. Y.

May 23, 1951

A meeting of the Metallic Lead Products Division of the Lead Industries Association was held on May 23, 1951, at the Biltmore Hotel, New York, N. Y.

Present

R. P. Harnedorf
Maurice C. Haas

I. M. Symonds
Julian S. Bors
J. B. Harfner

David Goose
J. A. Stone
F. B. Prickett
W. F. Murdock
Arthur R. Knight
John J. Fleiss
William Wilke, Jr.
William Wilke III
John L. Boyle, Sr.
John R. MacGregor
Rudolph Spitzer
Walter P. Carroll
Henry J. Freiherr
J. A. O'Hare
W. J. Walch
Henry J. Whitson
Charles R. Ince
Felix E. Wormear
William R. Street
George Mixer

Howard Novasol
Benjamin Wiener

Representing

The American Metal Co. Ltd.
Cia. Minera de Pinosas, S.A.
(The American Metal Co. Ltd.)
do
Bors & Co. Inc.
Bunker Hill & Sullivan Mining
& Concentrating Co.
Cambridge Smelting Co.
Division Lead Co.
E. I. duPont de Nemours & Co. Inc.
The Eagle-Picher Co.
Euston Lead Co. (The Glidden Co.)
The Fleiss Lead Co. Inc.
Hammond Lead Products Inc.
do
Johnston Pail Manufacturing Co.
John R. MacGregor Lead Co.
Metro Smelting Co.
National Lead Co.
do
do
do
do
St. Joseph Lead Co.
do
United American Metals Corp.
United States Smelting Refining
& Mining Co. Inc.
Victory White Metal Co.
Wyman Wiener & Sons

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GUESTS

Leon S. Epstein
Robert E. Gossnell

Hanover Metal Co.
Western Lead Products

GOVERNMENT REPRESENTATIVES

R. B. McCormick
R. E. Mote

Munitions Board
U. S. Bureau of Mines

STAFF OF LEAD INDUSTRIES ASSOCIATION

Robert L. Ziegfeld, Secretary
David M. Bordin
Kempton H. Roll
Homer S. Yetman

The meeting was called to order by the secretary, Robert L. Ziegfeld, acting as chairman, at 11:00 A.M.

The secretary announced the resignation of Randolph Charrington as chairman of this Division and stated the first order of business was the election of a new chairman to serve during the ensuing year.

Mr. Howard LeFevre was placed in nomination and there being no further nominations, it was regularly moved, seconded and unanimously carried that nominations be closed.

The secretary thereupon cast one ballot for the nominee who without any dissenting votes was declared elected.

In the absence of the newly-elected chairman, the secretary continued in the chair.

The secretary stated that in his opinion the manifold activities of this Division had resulted in increased acceptance of the products of members of this Division. Considerable progress has been made in the incorporation of lead in many plumbing codes and in the chemical field, lead was receiving more attention as a result of publicity and other activities of the Association in this direction.

The secretary then called on members of the staff for a more detailed report of this Division's activities.

Homer Yetman reported on the plumbing and water works field work. (Exhibit "A" attached).

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David M. Borcina reported on the miscellaneous activities.
(Exhibit "B" attached).

Hampton H. Roll reported on the chemical construction activities.
(Exhibit "C" attached).

The secretary asked for any suggestions or criticisms of this Division's activities and requested the members to write or wire us when they feel the Association can be of assistance in holding or increasing the use of lead in the plumbing, water works and chemical fields.

The meeting adjourned at 11:40 A.M.

Robert L. Ziegfeld
Secretary.

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Exhibit "A"
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REPORT BY HOMER YETMAN BEFORE THE
METALLIC LEAD PRODUCTS DIVISION

As you know, one of the phases of my work is plumbing codes. It is up to us to justify and maintain sections in these codes requiring that lead be used. This activity is constantly facing us at local, State and National levels.

In most instances, it is a long drawn-out battle to have our material included in new codes and to maintain or improve our position in revised codes. For example, the present Oregon State Plumbing Law requires that lead closet connections be used. At present, however, forces are at work to open up this requirement so as to permit other materials as well as lead. Some of the background leading up to this present situation is necessary to give you some indication of the time and effort involved in the enactment of plumbing code changes.

From about 1920 to 1930 this code was in its organization stage. Although not mandatory, it was state-wide practice to use lead waste pipe, traps and bands in all frame buildings and in concealed positions under bathroom floors. Unfortunately, as it turned out, this code did not contain minimum weight lead requirements. It must be remembered that standards such as our own and Government Specifications did not exist at that time. As a result, some plumbing contractors began to use light weight material which did not provide the service that was expected of lead. Failures began to appear and this of course led to other materials being used.

In the middle 1930s, lead of inferior quality was no longer available in large quantities as a result of manufacturers curtailing the production of these light weight materials. The higher quality material available at this time began to offset some of the bad effects of earlier years.

Beginning about 1938, the chief state plumbing inspector, in cooperation with the State Department of Health felt it advisable to revise the State Plumbing Law because of the many failures of the materials that replaced lead, particularly the water closet and similar fixture connections.

In 1949, eleven years after this movement was started, an amendment requiring that lead alone be used for water closet and similar fixture connections was adopted.

During 1949 and into 1950, this amendment was enforced by the State Chief Plumbing Inspector with apparently very little difficulty and all the sponsors seemed well pleased.

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Exhibit "A"
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Then suddenly protests were made by a minority group of plumbing contractors. These people wanted this section set aside or discontinued so that all material would be optional.

In order to treat everyone fairly, the Director of the State Department of Health called a meeting of the State Plumbing Advisory Committee concerning this matter.

The Committee agreed to wait until after the meeting of the Oregon State Master Plumbers Association on May 18 and 19, 1951, before rendering a final decision. The State Health Department favors the present wording of the amendment and the State United Association of Journeymen Plumbers has also voted favorably.

Bob Camp is at this meeting today in Portland and will do everything he possibly can to retain this amendment as it now appears in the code.

I have used this Oregon situation as a glaring example of the years of work sometimes necessary to have codes changed. Please remember that representatives of the Association were constantly in touch with this situation since its beginning.

During the past year, the National Plumbing Code has been compiled and is now in the process of being printed in Washington. It should be ready for distribution about July 1.

I am a member of this Code Committee as a representative of the American Society of Sanitary Engineering. This work entailed considerable time and effort but it includes more sections favorable to the use of lead than any of the previous codes of this type. As it is a code intended for national adoption, it is rather broad in its requirements and will require amendments to correspond with local practices wherever it is adopted. Such amendments have been prepared by us and are sent to code committees considering the adoption of this code.

This past year we have assisted Code Committees in many localities, and in some instances with very successful results. The following are some of them:

Poughkeepsie, N. Y. - Entire new code passed June, 1950, containing the Lead Industries Association lead sections.

Decatur, Ill. - Discouraged the passing of code sections detrimental to the use of lead.

Stamford, Conn. - Wrote new sections for the Town Code Committee.

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Albuquerque, N. M. - Wrote a set of amendments for the new State and the City Code.

Macon, Ga. - Submitted the Lead Industries Association sections which will be included in the new code.

Americus, Ga. - Submitted the Lead Industries Association section to the Code Committee, which was adopted recently.

Wrote the lead requirement sections for the National Plumbing Code which is to be adopted in the near future by the State of Florida and Orange County, Fla. The same applies for the States of Virginia and Tennessee.

At Dayton, Ohio, had a successful meeting with the Committee on the retention of lead water service pipe as a mandatory code requirement.

We are still actively working with the following plumbing code committees who have not entirely completed their work:

City of Omaha, Neb.	State of Louisiana
Town of Eastchester, N. Y.	State of Wisconsin
City of Greensboro, N. C.	■ ■ Florida
City of Kingston, N. Y.	■ ■ Tennessee
San Diego, Cal.	■ ■ Oklahoma
Houston, Tex.	■ ■ Iowa
New Orleans, La.	■ ■ Minnesota
Rochester, N. Y.	■ ■ Colorado
Denver, Colo.	■ ■ New Mexico
Trenton, N. J.	■ ■ Missouri
Savannah, Ga.	■ ■ West Virginia
Springfield, Ohio	■ ■ New Jersey
Salt Lake City, Utah	■ ■ New York
Pleasantville, N. Y.	
Tulsa, Okla.	

Our work with plumbers apprentice classes has shown very fine results in many localities.

We have worked successfully with the Federal Apprenticeship Bureau, State Vocational Education departments and Local Joint Apprentices Committees. To some classes we have furnished course outlines for lead work, joint wiping, and lead-burning. Many personal calls have been made. With the fine cooperation extended by many of our members, it has been possible for classes of both apprentices and journeymen to receive material at the lowest possible cost.

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Exhibit "A"
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This year we are again participating in the Home Appliance and Comfort Show being held in Chicago the last week of this month by the National Association of Master Plumbers. We feel we have a very interesting lead exhibit and we want all the Lead Industries Association members to feel welcome to visit us at our booth.

I hope this rather brief summary of our activities has given you some idea of the progress we are trying to make.

In closing I want to thank you for the fine cooperation we have received and let's all hope that those who have not availed themselves of the use of the Lead Industries Association Seal of Approval will again see fit to do so on all their products complying with the Lead Industries Association standards.

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Exhibit "B"
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REPORT BY DAVID M. BORCINA BEFORE
THE METALLIC LEAD PRODUCTS DIVISION

In making my oral presentation of the miscellaneous activities of this Division to those present at the meeting, we prepared a display board on which was exhibited the literature, photographs and other tangible evidence of our work referred to in this report. In lieu of this display board, the subject reported will be indicated by a subhead.

LEAD IN MODERN PLUMBING

This 24 page booklet shows in some detail the various uses of lead in a modern plumbing installation.

In November, 1950, 25,000 copies of this publication were printed. To date approximately 21,000 copies have been distributed. Of this total, 4,500 were purchased at cost by members. We have distributed 11,000 copies to architects, plumbing inspectors and plumbing apprentice training teachers.

As a result of individual requests which were received through publicity and press releases, approximately 5,000 additional copies have been distributed. These requests we believe are very significant, inasmuch as these people were interested enough in the subject to write to us directly or to trade magazines for copies of this booklet.

NATIONAL ASSOCIATION OF
HOUSING OFFICIALS

The Metallic Lead Products Division of the Association, in conjunction with the Red Lead Division, exhibited last year at the annual meeting of the National Association of Housing Officials.

The exhibit at this convention was an experimental one and one we do not expect to appear at again. It is our opinion that the money could be spent elsewhere to better advantage.

This same exhibit with some modification will be used at the forthcoming meeting of the National Association of Master Plumbers.

METALLIC LEAD PRODUCTS DIVISION BULLETINS

Nine mimeographed bulletins which we believe to be of interest to our members were circulated during 1950.

One example was the Government order covering copper on which we underscored those items for which lead could be substituted. Naturally, this bulletin was circulated to members before lead itself became a scarce material.

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Some of the bulletins covered new publications or leaflets which we had available.

One bulletin covered correspondence with the Mueller Brass Company on derogatory statements against lead which appeared in their booklet "Plumbing" and which they promised to delete in any future reprinting.

Another bulletin covered the work done on National Plumbing Codes.

We urged in another bulletin cooperation by our members to use the Seal of Approval on merchandise on which they are licensed to use it and to emphasize what the Seal stands for to their customers in selling, advertising and promotional efforts.

LEAD INDUSTRIES ASSOCIATION COLLEGE EXHIBIT

This exhibit was on display at the meeting and has been displayed at architectural schools of a number of universities, among them being Columbia, Yale, Rensselaer, Syracuse and Cornell.

Immediately after this meeting, it will go to Pratt Institute at Brooklyn and end the school term at Princeton. (Those members of the Division who were not present at the meeting and who have not yet had an opportunity to see this exhibit, will be kept informed as to the whereabouts of the exhibit.)

LEAD WELDING

This leaflet is primarily a practical article on how to weld lead. It was prepared by a Committee headed by a representative of one of our member companies and a member of the staff. This leaflet has been offered free of charge in our magazines "Lead" and "Plumbers' Forum," and as a result of only these two announcements, over 2,000 personal requests for this pamphlet have been received.

LEAD

The Metallic Lead Products Division continues to receive without any cost to it, publicity through the publication of this magazine which is supported by the Ordinary Division of the Association. This booklet is distributed to over 30,000 individuals, a large part of whom are architects, building contractors, and others in the construction industry.

PLUMBERS' FORUM

We have continued publishing "Plumbers' Forum" and at present it is being sent four times a year to a mailing list of over 25,000. Each issue of our publication includes a practical article that is of considerable use to plumbing apprenticeship training classes. It is not

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uncommon to receive requests from instructors of these classes for a complete set of all those issues containing practical articles for use in their classroom.

HOUSING BULLETINS

To date we have distributed 24 housing bulletins to members of this division. In these bulletins we list the State, City and Local Housing Authority which has jurisdiction, and the number of units planned.

We have received no comments from our members as to the value of this service and we would appreciate therefore your comments as to whether or not these Housing Bulletins should be continued.

Our own staff has found them useful in some instances.

HOUSE BEAUTIFUL CLIMATE CONTROL HOMES

These "Climate Control Homes" located in various sections of the country have been sponsored by the magazine "House Beautiful." Material for these homes has been made available to the individual builders free of charge on the basis that publicity would be forthcoming from the magazine "House Beautiful" when these various homes are described in that publication.

The Metallie Lead Products Division in one instance has cooperated in this venture and has supplied lead for a home located in Randolph, VT. This home, which is of the modern ranch type style, has been supplied with sufficient sheet lead to flash the entire structure. To see that our material was properly installed required several visits to the project by members of our staff.

The Association plans to use this structure in as many ways as possible to further the use of lead as a flashing material. Unfortunately, we cannot use this project in our own bulletins until "House Beautiful" has reported on it in their own publication. (Included on the display board were three photographs of the lead flashing being installed on this home.)

COMPARATIVE CORROSION STUDY OF SOIL, WASTE AND VENT PIPE MATERIALS

This study was inaugurated by the Fort Worth Water Department at the instigation of one of the members of our staff. The results of this study were presented in a paper given at the 1949 annual meeting of the American Society for Sanitary Engineering, and later appeared in their Yearbook. Reprints were purchased and to date over 2,000 copies have been distributed mainly as a result of individual requests.

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FW-P-325 FEDERAL SPECIFICATION FOR
PIPE, ENDS AND TRAPS, LEAD

The Metallic Lead Products Division was very active in the preparation of this Federal Specification and has, since its adoption by the Government, used it quite extensively. It has been distributed to cities contemplating plumbing code changes, to various groups in the plumbing industry and to date over 2,000 copies have been distributed.

CALKING LEAD SPECIFICATION

The Department of Commerce specification for Calking Lead includes recognition of our Seal of Approval and points out that any calking lead bearing the Seal of Approval of the Lead Industries Association conforms to the standards of the Association, and that these are identical with this commercial standard.

Over 3,000 copies of the Commercial Standard have been circulated to interested parties.

WASHINGTON

As in all phases of the lead industry, the Metallic Lead Products Division is interested in what is going on in Washington. In this respect, constant attention is being paid to the various agencies in Washington, in connection with construction and plumbing.

Visits to these various agencies are made regularly.

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REPORT BY KEMPTON H. ROLL BEFORE THE
METALLIC LEAD PRODUCTS DIVISION

Educating potential users of metallic lead to the fact that despite lead's antiquity, it is still a most useful and valuable metal for handling industrial corrosives was the keynote of the Program for the past year. Chemical Bulletins describing in detail, the uses of lead in modern industry and also pointing out advantages of lead over that of certain competitive materials were prepared for the exclusive use of members of the Division. Non-members, that is, chemical engineers and others in industry and in universities who are concerned with materials of construction were reached by means of magazine articles, reprints of the same, and through illustrated lectures. For example, at the request of "Paper Trade Journal" the Association prepared, with the assistance of a recognized consultant in the field, a magazine article entitled "Lead in the Pulp and Paper Industry." While under the by-line of the consultant, the article itself was written in large measure by the Association in order to assure proper interpretation. Reprints of this article were obtained and sent to the members as a Chemical Bulletin and as a Lead Chemical Construction Bulletin to a selected list of Chemical Engineering Departments at accredited colleges in the United States, chemical construction companies, consultants and lead construction contractors.

Contributions to the "Corrosion Forum" of "Chemical Engineering" were continued and reprints obtained of the articles describing the use of lead as a material of chemical construction with various industrial corrosives. Reprints were sent to members as Chemical Bulletins and the entire series, going back to 1946, was compiled and sent to the colleges and industry as a Lead Chemical Construction Bulletin and also made available to all interested parties.

"Chemical Engineering" magazine this year initiated a new series of articles describing the use of various materials of construction in an entire industry. The first industry chosen was the paper industry and the Association supplied detailed articles describing the use of lead in stock handling, acid pulping and bleaching which were published in three separate issues of the magazine. Once again reprints were obtained and sent to the members.

College Lectures Initiated

The need for acquainting young engineers still in college with a knowledge of where lead is used, how it is used and the fact that it is still an important material of chemical construction (despite stainless steel, plastics and synthetic rubbers) has been realized for sometime. To help meet this need a series of lectures were delivered before such groups. On April 16, 1951, a two hour, illustrated lecture was delivered before a group of 125 graduate engineering students at the Newark College of Engineering. The title of the lecture was "Lead as an Engineering Material." This was a repeat

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invitation at the Newark College of Engineering, the first lecture having been given a year earlier on the same subject. On April 21, 1951, a group of graduate and undergraduate students at Yale University were lectured. The subject this time was "New Developments in the Metallurgy of Lead." In both of the above cases a mimeographed version of the lecture was prepared and distributed to all present. This Program, just beginning to get underway, will be expanded to cover more colleges beginning with the next school term.

"Materials and Methods" Article

To show that improvements in lead fabrication and installation methods continue to keep pace with developments in the chemical and process industries, modern lead construction methods were reviewed and brought together for the first time in an article entitled "New Developments Expand Use of Lead Construction" which was published in the May, 1951, issue of "Materials and Methods" magazine. The five-page illustrated article is being reprinted for distribution to the members as a Chemical Bulletin and to the colleges and industry as a Lead Chemical Construction Bulletin as well as being made available for all interested parties. Arrangements have been made for the purchase of extra reprints by some of the members of the Division for their own distribution.

Other Activities

Election as vice-chairman of the Metropolitan Section of the National Association of Corrosion Engineers presented the opportunity to set up a program for forthcoming meetings of that society. The same applies as a member of the Program Committee of the New York Section of the American Society for Metals, a program on new developments in brazing and soldering being arranged.

Two articles were written on the subject of leaded lubricants, which were published in "Steel" November 13, 1950, entitled "Special Leaded Lubricants Meet Severe Service Demands," and in the April, 1951 issue of "Mill and Factory" entitled "Leaded Lubricants for Heavy Duty Service." Reprints of the latter are available.