

# LEAD INDUSTRIES ASSOCIATION

60 EAST 42ND STREET  
NEW YORK 17, N. Y.

July 1, 1958

## QUARTERLY REPORT OF THE SECRETARY

April 1 to June 30, 1958

The following report covers the highlights of Association activities during the second quarter of 1958. More detailed information on these activities or others not enumerated will be supplied on request. No attempt has been made herein to cover routine activities.

### GENERAL

1. "Lead" - The second 1958 issue of this quarterly was prepared for mailing to about 50,000 people around July 1.

2. Research - Several new research projects totaling \$103,000, recommended by the Technical Steering Committee, were approved by the Industry Development Committee and the Board of Directors. Arrangements for several of these have been completed and are noted elsewhere in this report.

3. Annual Meeting - The 30th Annual Meeting of L.I.A. was held at the Chase-Park Plaza Hotel, St. Louis on April 15-16. For the fourth year it was held jointly with the American Zinc Institute. A number of the papers received wide publicity in the trade press.

4. "Lead as an Engineering Material" - D. M. Borcina, assistant to the secretary of L.I.A., again delivered this annual lecture before two groups of about 100 graduate students at the Newark College of Engineering. This is the seventh successive year L.I.A. has provided a lecturer.

5. Information Bulletin - Three of these Bulletins were mailed to members during the quarter.

6. "New Markets for Lead" - R. L. Ziegfeld, secretary, presented a paper by this title before the New York Section of A.I.M.E. as a part of a three-man panel which also covered copper and zinc.

7. Battery Conference - E. J. Mullarkey, technical director of L.I.A., attended the annual battery conference sponsored by the Signals Corps and copies of the Proceedings are being made available to members at reduced cost through L.I.A.

8. A.S.T.M. - Two staff members attended the annual meeting of the American Society for Testing Materials and meetings of committees dealing with lead and lead products.

9. Annual Statistical Review - This annual compilation was printed and distributed to members.



Quarterly Report

-2-

July 1, 1958

HEALTH AND SAFETY

10. Red Lead Paints in Potable Water Tanks - The history of this nine-year controversy was summarized in our Health and Safety Bulletin No. 127, dated June 6th. Its potential detriment to our interests has warranted these prolonged efforts to bring it to a satisfactory conclusion. Most recently, these have included conferences with state water supply officers in Boston, the American Water Works Association and governmental officials in Washington.

11. Childhood Lead Poisoning - At our behest, the American Standards Association established in 1955 a standard setting a safe limit for lead in paints to be used on toys and on other surfaces exposed to the chewing activities of small children. This standard has been used as a basis for regulation by a number of governmental agencies and has proved otherwise so useful that the committee by which it was prepared has been reconvened for purposes of review, and held its initial meeting on May 28th. Conferences with representatives of the American Academy of Pediatrics and the National Retail Dry Goods Association have been involved in this activity.

12. Meetings - Meetings attended during the quarter have included the annual Industrial Health Conference in Atlantic City, a Labor Health Conference in Washington, and the annual meeting of the American Medical Association in San Francisco. Locally, meetings of the Greater New York Safety Conference and the Metropolitan New York Section of the American Industrial Hygiene Association, as well as a conference on dust diseases at N.Y.U.-Bellevue, were attended.

13. Committee Work - Manfred Bowditch, health and safety director, L.I.A., was appointed chairman of a newly created Interprofessional Relations Committee of the American Industrial Hygiene Association. His membership in one committee and three subcommittees of the American Standards Association, of one of which he is chairman, continue, as does his membership in the Health and Medical Section of the Home Conference of the National Safety Council. By invitation, committee meeting on the precautionary labeling activities of the Manufacturing Chemists' Association was attended.

14. Bulletins - Two Health and Safety Bulletins were issued during the quarter.

15. Lead Hygiene Conference - Preparation of the program for this Conference to be held in Chicago on November 6 and 7 are proceeding and several nationally known authorities have already accepted invitations to speak.

METALLIC LEAD PRODUCTS

16. Solder Handbook - Our Solder Committee, under the chairmanship of Mr. Borcina, completed its work on the Solder Handbook and publication later this year by the American Welding Society is expected. The text has also received preliminary approval of the latter Society's Brazing and Soldering Committee.

17. "Use Lead To Control Refinery Corrosion" - is the title of an article by Mr. Mullarkey which appeared in "Petroleum Refiner," April, 1958. Reprints have been distributed to members and to our list of some 1,300 people interested in chemical construction.

Quarterly Report

-3-

July 1, 1958

18. Welding Handbook - On invitation by the American Welding Society, Mr. Borcina will serve as chairman of the committee to revise the chapter on soft soldering for a new edition of the Welding Handbook published by that Society.

19. Plumbers' Show - L.I.A. is exhibiting at the exposition held in conjunction with the annual convention of the National Association of Plumbing Contractors at Los Angeles starting the last day of June.

20. Contraction Joint - L.I.A. has cooperated with the Portland Cement Association in preparation of a specification for the use of an extruded lead strip to fill contraction joints in monolithic concrete floors over which heavy trucking travels, as in warehouses. The lead prevents cracking and spalling of the concrete.

21. Publicity - Feature publicity releases appeared in the following publications:

| <u>Publication</u>               | <u>Subject</u>                                |
|----------------------------------|-----------------------------------------------|
| Building Digest                  | Lead gutters, Duke University                 |
| Architectural Record             | Lead anti-vibration pads, Union Carbide Bldg. |
| Southwest Builder & Contractor ) | Lead-lined alop sinks,                        |
| Catholic Building & Maintenance) | Seagram Bldg.                                 |

#### CERAMICS

22. Research - In addition to the graduate research fellowships for the academic year 1958-1959 announced in the last report, arrangements were completed for two more, one at Alfred University and one at the University of California. This brings to eight the fellowships established for the coming school year with negotiations still in progress for one more.

23. Advertising - This program continued with monthly ads in "Ceramic Industry," "Ceramic Age," and "Bulletin" of the American Ceramic Society, and bi-monthly ads in "Ceramic News."

24. Educational Displays - Eighteen of our permanent educational displays have now been shipped and are on exhibit at ceramic schools from coast to coast. In addition to those listed in the last quarterly report they are: Ohio State, Georgia Institute of Technology, Universities of California at Berkely and at Los Angeles, and University of Toledo. Flattering comments about them have been received from both professors and students.

25. American Ceramic Society - Several staff members attended the annual meeting of this Society and a meeting of L.I.A.'s Ceramics Technical Committee was held at that time. A number of papers involving lead were presented at the meeting.

#### RED LEAD

26. Research - A new paint investigation, L.I.A. Project 27, was started by the Red Lead Technical Committee. It will test wash primers and anti-corrosive primers in sea water at total immersion and tide range, and in fresh water.

27. Paint for Galvanized Surfaces - The Red Lead Technical Committee inspected all L.I.A. paints now on exposure at Sayville, N. Y., on May 8 and 9. One red lead-zinc dust-iron oxide paint was found to be outstanding for use on both new and rusted galvanized iron after six years of exposure. It will be the subject of a new Red Lead Technical Letter now under preparation and may greatly broaden the market for red lead in a field where it is rarely used now.

28. Advertising - Monthly ads in two colors are continuing to appear in "Engineering News-Record."

Quarterly Report

-4-

July 1, 1958

29. Paints for Potable Water Tank Interiors - See Item 10 under Health and Safety.

30. Publicity - Feature publicity releases appeared in the following publications:

Publication  
American Painter & Decorator  
Building Digest

Subject  
Maintenance painting of steel  
Red lead primers on Calumet Skyway, Chicago

#### MISCELLANEOUS RESEARCH ACTIVITIES

31. Cable Sheathing - The Cable Sheathing Task Group of the Technical Steering Committee met at the plant of the John Robertson Co., extrusion press manufacturer, early in May to examine the new experimental continuous extrusion press built by that company at its expense for a test program to perfect the continuous extrusion of lead alloys used for cable sheathing. This program was originally suggested by the Task Group and L.I.A. is giving financial support to the work for the balance of this year.

32. Lead-Cemented Metallic Materials - A six-month investigation of the possibility of improving the properties of lead by dispersion of other metals insoluble in lead will be undertaken under a contract entered into between L.I.A. and Battelle Memorial Institute.

33. Heat Emissivity Studies - Based on evidence that certain lead-compound coatings increase the heat emissivity of other materials and the possibility of using this property commercially in heating and refrigerating systems, arrangements have been made for a one-year study of the heat emissive properties of lead compounds in the Graduate School, College of Engineering, New York University.

34. Investigations - A number of investigations that may lead to other research or promotional activities have been initiated. They include soldering andterne plate in the can industry, lead foil laminations for various applications, industrial storage batteries, chemical compounds like lead hydride and lead alloys for various applications.

35. Building Construction - The study of the use of lead in building construction and how it might be expanded, started by the architectural firm of Skidmore, Owings and Merrill for L.I.A. in January, is nearly completed and a report is expected in about another month.

36. Reinforced Lead - In cooperation with the Owens-Corning Fiberglass Corp., tests on the physical properties of lead reinforced with glass fibers are now in progress under the supervision of a subcommittee of the Technical Steering Committee.

37. Technical Steering Committee - This Committee met in early June, approved several of the research contracts which have been made and continued preparation for other projects which, it is expected, will be entered into soon.

Respectfully submitted,



Secretary.