

LEAD INDUSTRIES ASSOCIATION

60 EAST 42ND STREET

NEW YORK 17, N. Y.

October 8, 1959

QUARTERLY REPORT OF THE SECRETARY

JULY 1 TO SEPTEMBER 30, 1959

The following report covers the highlights of Association activities during the third quarter of 1959. More detailed information on these activities or others not enumerated will be supplied on request. No attempt has been made to cover routine activities, and research is covered in a separate report of the Research Director.

GENERAL

1. Information Bulletins Two of these bulletins were circulated to members during the quarter.
2. American Mining Congress The annual meeting of the Western Division of the American Mining Congress in Denver was attended by the Secretary.

HEALTH AND SAFETY

3. Conference Proceedings The Proceedings of our Lead Hygiene Conference of last November were delivered late in September. An attractive volume of 82 pages, it can be truly said to contain the most up-to-date and authoritative answers to most of the important problems of lead hygiene. Distribution of the initial five hundred was under way as the third quarter closed. Copies additional to the complimentary ones in this mailing are available at \$2.00 each to our members, \$3.00 to others.
4. Childhood Lead Poisoning A phenomenon of lead poisoning in children under intensive study and not yet wholly understood is its markedly increased incidence during the warmer months of the year. This has, as usual, accounted for considerable summer activity, with Jersey City among the newer trouble spots. Participation in the affairs of the committee advisory to the Philadelphia Health Department has continued and, in New York City, a plan to enlist the cooperation of the Community Council in preventive measures among the Puerto Rican and Negro population is being developed.
5. TV Under active prosecution since early in the year, our efforts to reach an understanding with the producers of the "Highway Patrol" television series appear to have come to a satisfactory conclusion. We now have their verbal agreement to eliminate all reference to the toxicity of lead in an episode of the series which reflected no credit on the metal or on the producers themselves.



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6. Police Target Practice A New York City newspaper recently quoted a police sergeant as saying that members of the force had suffered from lead poisoning as a result of engaging in target practice in the department's indoor ranges. An investigation initiated by the LIA brought a retraction of this statement, but it was still claimed that men employed in maintaining the ranges had given evidence of undue lead absorption. Even this seems open to grave doubt, and the situation continues under intensive study.

7. Bottle Capsules An inquiry emanating from one of our members, based on an allegation of governmental authorities, has been under investigation. This was to the effect that the lead foil "capsules" commonly used to cover the corks and necks of wine bottles can cause contamination of the wine by lead and that their use should be discontinued. No evidence in support of this contention has been found, and an opinion by one of our leading medical authorities is to the effect that it is quite baseless.

8. Lead in Automobile Exhaust Gases Periodically in recent years, we have had to combat the contention that lead emanating from the tail pipes of motor vehicles constitutes a menace to the public health in urban areas. That our part in this effort has been in some degree productive seems indicated by the fact that, in a recent article on air pollution by motor exhaust gases, published by the American Medical Association, no mention whatsoever is made of lead.

INDUSTRY DEVELOPMENT--GENERAL

9. Annual Review Article The annual review article on technical developments in "Lead and Lead Alloys," prepared by E. J. Mullarkey, appeared in the September issue of "Industrial and Engineering Chemistry." Reprints have been ordered for our own distribution.

10. "Lead" The third 1959 issue of this quarterly publication was prepared, printed and distributed to our list of over 50,000 names.

11. Advertising During the quarter, two one-page ads in our "Lead News Letter" series appeared in "Product Engineering" and one of the same series in "Materials in Design Engineering."

12. Lead Castings An article on this subject is being prepared for "Encyclopedia of Engineering Materials and Processes."

13. Batteries First draft of a brochure on lead-acid battery powered industrial trucks has been prepared.

INDUSTRY DEVELOPMENT--METAL PRODUCTS

14. Lead Anodes on a Bridge An inspection was made and photographs taken for publicity purposes of the lead alloy anodes being installed on the Sidney Lanier Bridge at Brunswick, Ga., in an impressed current cathodic protection system in which lead replaced graphite.

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15. Plumbers' Apprentice Contest D. M. Borcina again served as judge of leadwork at the annual International Plumbers' Apprenticeship Contest held at Purdue University, and Government savings bonds were awarded to the three best lead workers. Homer Yetman again served as instructor of lead work of 327 instructors of plumbers' apprentices in a refresher course held concurrently.

16. "Coustifab" Information about this lead-loaded plastic sound-deadening material was circulated to our members to encourage its use where it might fit into members' own operations.

17. Pool Linings Work with the engineers and contractors for the new Time-Life Building in New York has helped in the specification of some 50 tons of 6-lb sheet lead as waterproof linings for eight decorative pools on this project.

18. Niagara Power Project Photographs and details of the installation of 500 tons of sheet lead used as lubricating and sealing bases under the concrete walls of the water tunnels of this project were obtained for publicity and advertising purposes.

19. Advertising During the quarter, one page ad on the use of lead to reduce noise and vibration appeared in "Engineering News-Record." The previous ad in this series, also devoted to vibration, brought in well over 100 inquiries for additional information. The quality of these inquiries was impressive, coming from the Army, Navy, and many of the best known industrial and engineering firms in the country.

20. Sweet's Catalogs Contracts have been renewed for two four-page inserts in Sweet's Catalogs for architects and light construction builders for 1960. They will again deal with lead roofing and flashing, and lead plumbing and water-proofing.

21. Inspiration Copper Photographs and data have been gathered on a visit to Inspiration Copper in Arizona for a technical article and other publicity on the 10,000 to 11,000 tons of lead sheet and pipe installed there in leaching tanks, acid storage tanks, electrolytic cells, and pipe lines, some of which has given good service for upwards of 25 years.

INDUSTRY DEVELOPMENT--PIGMENTS

22. Red Lead Technical Letter No. 14 Navy approval of this letter, dealing with a red lead ship-bottom paint tested in cooperation with the Navy, was received and the "Letter" was printed and circulated to about 10,000 people interested in anticorrosive paints.

23. Yellow Traffic Marking Paint Since this paint contains lead chromate, and white traffic paint contains no lead, our field efforts have been devoted to encouraging its use in the newly developing practice of edge-striping highways. Available data indicate a new potential market of some 4,000 tons of lead content in addition to some 2,000 tons lead content of yellow traffic paint now being used for no-crossing lines on curves.

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24. Advertising During the quarter, two one-page ads appeared in "Engineering News-Record" and one in "Marine Engineering/Log." Both featured metal-protective lead primers and were in two colors.

25. Committee Meeting The Lead Pigments Technical Committee met to review current activities and make recommendations for research and promotion on lead pigments in 1960.

26. Litharge for Vibration Control An inquiry was received from Mare Island Naval Shipyard about vibration control with lead. A follow-up visit to present available data revealed that they are testing rubber heavily loaded with litharge to a density of 5 and over for possible application to the inside of submarine and destroyer hulls.

INDUSTRY DEVELOPMENT--CERAMICS

27. Supplements to "Lead in the Ceramic Industries" Two new supplements, one two-page and one eight-page, were printed and distributed to all who had previously received this technical data book. In addition, a new supply of the complete book was printed, as the original printing of 6,500 copies was depleted.

28. Meetings Among ceramic meetings attended during this period were those of the Electronics Division of the American Ceramic Society, and the Porcelain Enamel Institute.

29. Advertising During the quarter, ads on lead in various ceramic applications appeared as follows:

Brick and Clay Record	2 pages
Ceramic Industry	2 pages
Ceramic News	2 pages
Metal Product Manufacturing	1 page
Bulletin of the American Ceramic Society	1 page
Ceramic Age	1 page

30. Publication A report on "Ultra Low-Loss Ceramic Dielectrics," based on work sponsored by LIA at Rutgers and so acknowledged, appeared in the September issue of the "Journal of the American Ceramic Society." Reprints are being obtained for wider distribution.

31. New Product A staff member is working with Synthetic Mica Corp. toward publicizing a new product which is synthetic mica in a matrix of lead glass containing over 80 per cent PbO. It has interesting properties, including machinability, and is already in commercial use, although some applications are of a secret nature.

32. Committee Meeting The Ceramics Technical Committee met to review 1959 activities and make recommendations for research and promotion in 1960.

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INDUSTRY DEVELOPMENT--RADIATION SHIELDING

33. Article on Lead Shielding An article on "Materials for Portable Research and Training Reactors" has been prepared and is now in the hands of the editors of "Materials in Design Engineering" for review. We understand that it has been accepted for publication but that the publication date has not been determined.

Respectfully submitted,



Secretary