From the Executive Vice President
Lead Industries Association, Inc.
292 Madison Ave.
New York 17, N.Y.

Look Ahead with Lead

April 1, 1964

JANUARY 1 to MARCH 31, 1964

The following report covers the highlights of Association activities for the first quarter of 1964. 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 Bulletin. Two of these bulletins were sent to members during the quarter.

2. Annual Review Article. The Executive Vice President's annual review of the lead situation appeared in the February, 1964, issue of "Engineering and Mining Journal" and reprints were sent to members.

3. "The Position of Lead in a Changing Technology." This was the title of a paper by L.I.A.'s Executive Vice President and its Secretary before the annual meeting of the Metallurgical Society of A.I.M.E. in New York in February. Copies have been sent to members.

4. 1964 Annual Meeting. Preparations and the program for this year's annual meeting were completed and notices of meeting, programs and press releases were sent out.

5. Headquarters. With the removal of I.L.Z.R.O. to its own quarters on the 19th floor of 292 Madison Ave., L.I.A. and A.Z.I. completed plans for restoration of an enlarged conference room and other alterations on the 14th floor, which is now occupied completely by the two Associations. Work should be completed some time in April.

6. Profile. L.I.A. is proud to have been selected as first among the metal associations to have been selected by "Engineering and Mining Journal Metal and Mineral Markets" for a "Profile," a series of which are planned by the publication. L.I.A.'s profile appeared in the February 24, 1964, issue and was based on interviews with the Association's executives.

7. Meeting of Non-Ferrous Metal Industry Representatives. The Executive Vice President attended a meeting of this group with representatives of the U. S. Department of Commerce, State and Interior Departments, called by the Commerce Department, to discuss work of the O.E.C.D. Non-Ferrous Committee. No actions were taken with respect to lead.

HEALTH AND SAFETY

8. National Paint, Varnish and Lacquer Association Conference on Labeling. The Health and Safety Director attended this conference and participated in a panel discussion on hazardous substances. The conference was attended by representatives of government and industry who are concerned with warning labels for paint, chemicals, and other products covered by labeling legislation.

9. Stanford Research Institute--ILZRO Sampling Project. Advisory trips were made to Chicago, Cincinnati and Philadelphia as part of this project to select sampling sites and confer with government air pollution agencies in each of the respective cities where the S.R.I. sampling crew collected air samples for lead analysis.

10. Meetings. The Health and Safety Director attended a meeting of the City of Philadelphia's Lead Poisoning Advisory Committee. He also conducted a seminar on air pollution for graduate students in the School of Public Health at the University of Michigan, attended a luncheon on occasion of 50th Anniversary of Division of Occupational Health of the U. S. Public Health Service, the National Health Forum, and the organization meeting of the National Association of Manufacturers' Committee on Employee Health and Safety.

11. California Institute of Technology and Report on Lead in the Ocean. As part of our industry effort the Health and Safety Director visited Dr. Patterson of CalTech, author of a widely publicized report on lead in the ocean, and Mr. George Getz, Science Writer for the Los Angeles Times. Dr. Patterson had recently completed a series of tests of ocean water from samples taken in the Atlantic and the Pacific waters, and had found amounts of lead which appeared to him to require explanation. It was his explanation that this lead could only have come from auto exhaust which occasioned the widespread publicity that his report received.

INDUSTRY DEVELOPMENT - GENERAL

12. Advertising. A one-page ad on a variety of lead applications depending on different properties appeared in "Machine Design" and "Product Engineering."

13. "Lead." The first 1964 issue of this magazine was sent to the printers in March and should be ready for mailing in early April.

INDUSTRY DEVELOPMENT - NOISE AND VIBRATION

14. Case History. The second Case History report on the experimental use of lead for sound proofing a room (in this case a polygraph room) was circulated to members. Publication of versions of this report are planned in "Lead" and "Law and Order" and a brief reference has been made to this case in an article for "American City."

15. "American City" Magazine. An article describing several actual applications of lead for noise control that might be of interest to municipal engineers was prepared for this magazine and accepted for publication, although the issue in which it will appear has not been decided. A brief discussion of the theory of noise control and lead's use in it is included.

16. Society of Automotive Engineers. A paper on lead for noise and vibration control, with practical examples of applications, was prepared for presentation before the S.A.E. in Detroit on April 1, 1964. Preprints were obtained and circulated to members and other interested parties.

17. Lead-lined Panels. Field tests were made at the new Hotel America, Hartford, on bedroom walls some of which are of normal 4½-in. thick plastered gyplath and steel stud construction incorporating a short section of 1⅝-in. thick gypsum board lined with 6-lb. sheet lead. These walls gave results equal to those without the thin sections for all practical purposes so far as sound transmission is concerned. A detailed case history report will soon be mailed to members.

18. Press Noise. L.I.A. was invited to examine a noisy machinery installation at the Champlain Press in Roseland, N. J., and to recommend noise reduction methods. A combination of a lead-lined enclosure and lead-loaded gook to reduce resonance is being applied.

19. Kilgore Doors. An installation of these lead-lined removable partitions was observed in a motel in Toronto and found to be giving highly satisfactory results for the price and for the purpose for which they are intended.

20. Gateway Center, Chicago. L.I.A. has been making every effort to have lead anti-vibration pads installed at this new Tishman project over the railroad tracks adjacent to Union Station in Chicago. The pads were originally specified for the tower foundations, but James Ruderman of New York, who has had extensive experience with the pads in the Grand Central area, is consulting engineer for the project and has recommended them for the entire structure. We are making every effort to see that they remain in the final specifications, particularly since this would be the first lead job of its kind in the Chicago area.

INDUSTRY DEVELOPMENT-CERAMICS

21. Low-Temperature Enamels. Reprints of a paper entitled "Crystallization Characteristics of Lead Molybdate in Low-Temperature Enamels," based on an International Lead Zinc Research Organization fellowship at the University of Illinois, which appeared in the Nov. 7, 1963, issue of the American Ceramic Society "Bulletin," were sent to members.

22. Large Scale Phase Diagrams. A meeting was held at the National Bureau of Standards, Washington, with officials of the American Ceramic Society and Bureau experts to outline details of a program, approved by the L.I.A. Board, for joint publication and distribution of phase diagrams involving lead that would be larger and more useful to ceramists than any now available. It was agreed that the large, comprehensive program originally envisioned was premature because of lack of data, and a more modest program was outlined.

23. Supplement. The new supplement adding additional phase diagrams involving lead compounds, based on the International Lead Zinc Research Organization fellowship at Pennsylvania State University, was issued and mailed to all who have copies of "Lead in the Ceramic Industries."

24. "How to Make Low Temperature Enamels Work." This article, which refers extensively to low temperature leaded enamels for steel, appeared in the March, 1964, issue of "Ceramic Industries." It credits J. F. Smith of the L.I.A. staff with assistance in preparing it.

25. Enameled Aluminum. L.I.A. was represented at a meeting of the Aluminum Council of the Porcelain Enamel Institute, which was called to explore means of increasing the popularity of this material either through promotion or research.

INDUSTRY DEVELOPMENT - METALLIC PRODUCTS

26. Solder Committee. L.I.A.'s Solder Committee met in New York on January 31 to review and rewrite the Soldering Chapter of the American Welding Society's "Welding Handbook." The Committee also made suggestions to the staff to be used in the new solder advertising being initiated this year and in exhibiting solder at the Design Engineering Show in May.

27. Advertising. A page ad on lead wool calking of granite bridge piers appeared in "Engineering News-Record."

28. Anodes. An article from the January, 1964, issue of "Materials Protection" by two men at the U. S. Naval Applied Science Laboratory, Brooklyn, on "Lead Alloy Anodes for Cathodic Protection in Various Electrolytes" was reprinted and will be distributed to members and others interested.

29. Lead-lined Pools. Much time has continued to be spent on the use of lead linings for architectural fountains, planters and reflecting pools, with results evidenced by such linings in several pools at Constitution Plaza, including the much publicized Phoenix Life Insurance building, in Hartford, 35 tons of lead pool and planter linings at the new Museum of Modern Art on East 53rd St., New York, and an even larger installation at the New York World's Fair Hall of Science. Preliminary data has also been supplied the office of Kamuro Yamasaki for a large pool at Harvard and a number of pools at the proposed World Trade Center in New York.

INDUSTRY DEVELOPMENT - BATTERIES

30. "The Picture Book of Power Batteries." A new 12-page brochure depicting the wide variety of applications for lead-acid batteries in industrial vehicles and appliances was issued and mailed to members and a list of about 8,000 design engineers. It will be offered to electric utilities, industrial truck and battery manufacturers for their own distribution and will be used in connection with our battery advertising.

31. Materials Handling Institute. The Executive Vice President attended the annual meeting of this organization in New Orleans in March and reported to its Electric Truck Division on the progress of our advertising and promotional program on electric trucks last year. He also presented an outline of our program in this area for 1964 and was offered full support by the industrial truck and battery manufacturers present.

32. Advertising. Two-thirds page ads on electric industrial trucks appeared in "Materials Handling Engineering," "Factory" and "Business Week."

INDUSTRY DEVELOPMENT - PIGMENTS

33. Advertising. A one-page ad on red lead primers for bridges appeared in "American Painting Contractor."