

# Lead Industries Association, Inc.

292 MADISON AVENUE

NEW YORK 17, N.Y.

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DIRECTOR OF HEALTH AND SAFETY

January 21, 1964

Robert A. Kehoe, M. D.  
The Kettering Laboratory  
The University of Cincinnati  
College of Medicine - Eden Avenue  
Cincinnati 19, Ohio

Dear Bob:

As you know considerable interest has, from time to time, been expressed in the lead content of the community atmosphere and the sources from which lead reaches the atmosphere. In this latter regard particular attention has been directed to the exhaust gas from automobiles burning gasolines containing lead alkyl antiknocks. Being concerned with this problem, the major producers of lead alkyl antiknocks, E. I. du Pont de Nemours & Company and Ethyl Corporation, initiated a project at Stanford Research Institute, sponsorship of which was shared with the Lead Industries Association and its associate, the International Lead Zinc Research Organization. The American Petroleum Institute also participated. The objectives of the program included:

1. The development of techniques for determining the size distribution of atmospheric lead aerosol.
2. The determination of the nature of the lead compounds in the atmospheric aerosol.
3. Sampling of the atmosphere in selected locations to determine the size distribution of the lead aerosol.

The results of this 18-month study are contained in a report entitled "Variations of Atmospheric Lead Concentrations and Type with Particle Size", a copy of which is enclosed.

We are pleased to send you this report. We believe you will be interested in the sampling techniques used, especially the extensive use of the Goetz aerosol spectrometer, and in the ambient air data for Los Angeles and San Francisco which are included as illustrations of the

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use of the sampling techniques. Plans are currently being made for a brief extension of the sampling program to other cities.

Very truly yours,

A handwritten signature in dark ink, appearing to read "Don G. Fowler", with a long, sweeping horizontal stroke extending to the right.

Don G. Fowler

DGF:md  
Enc.