

INTERNATIONAL LEAD ZINC RESEARCH ORGANIZATION, INC.

222 MADISON AVENUE, NEW YORK, N. Y. 10017
TELEPHONE 222 2275 (AREA CODE 212)
CABLE ADDRESS: NYLIRG NEW YORK

August 24, 1967

To: All Members of the Lead Environmental Health Committee

Re: 1968 Budget Meeting
September 21, 1967 - Thursday - 9:30 a.m.
Engineers Club
32 West 40th Street
New York, N. Y.

As previously announced, our annual budget meeting will be held at the time and place listed above.

Project summaries are enclosed, together with proposals and work statements where these are available. Please bring these with you to the meeting.

Very truly yours,

Don G. Fowler

Don G. Fowler
Project Manager

DOF:sv
enclosures

Wm C. Hara

INTERNATIONAL LEAD ZINC RESEARCH ORGANIZATION, INC.

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SUBJECT TO REVISION

LEAD ENVIRONMENTAL HEALTH COMMITTEE
1968 BUDGET MEETING
MINUTES

Engineers' Club
 32 West 40th Street
 New York, New York

September 21, 1967

The meeting was called to order at 9:45 a.m. by the Chairman, Mr. J. G. Sevick.

PRESENT

J. G. Sevick
 K. W. Nelson
 K. Raht
 L. L. Cogen
 M. E. Elmore
 H. E. Hasselberg
 D. B. Diago
 A. Kurayama
 F. L. Warner
 R. D. Semmens
 O. Freund
 J. C. Calandra, M.D.

REPRESENTING

St. Joseph Lead Company
 American Smelting and Refining Company
 Cominco Ltd.
 Ametalco Inc.
 The Bunker Hill Company
 Ethyl Corporation
 E. I. du Pont de Nemours & Company
 Mitsui Mining & Smelting Co., Ltd.
 United States Smelting Refining and Mining Company
 Broken Hill Associated Smelters Proprietary, Limited
 Houston Chemical Corp.
 Halco Chemical Company

STAFF

S. F. Radtke
 D. S. Carr
 S. E. Eck
 D. G. Fowler
 J. C. Roumas

QUESTS

D. M. Borelma
 C. Thompson

Secretary-Treasurer, Lead Industries
 Association, Inc.
 Hill and Knowlton, Inc.

The Minutes of the April 27, 1967 meeting were approved as received by mail.

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Lead Environmental Health Committee Budget Meeting Minutes
September 21, 1967

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1968 Budget

a. Projects voted on:

LN-75 Human Exposure to Particulate Lead Compounds in the Air Under Experimental Conditions; University of Cincinnati

<u>Approved</u>		<u>For</u>	<u>Against</u>	<u>Abstained</u>
<u>ILHRO</u>	<u>TEL</u>			
\$37,500	\$37,500	13*	0	0

* Including one vote submitted by mail by Associated Ocel Company, Limited.

LN-79A Toxicity Testing for Organo-Lead Compounds; The Rine Laboratories, Inc., and Industrial Bio-Test Laboratories

LN-79B Toxicity Evaluations of Trimethyl, Tributyl and Triphenyl Lead Acetate; University of Exeter

These two projects were discussed and voted on together. It was unanimously agreed that they be continued.

<u>Approved</u>		<u>For</u>	<u>Against</u>	<u>Abstained</u>
<u>ILHRO</u>				
\$5,000	(LN-79A)	12	0	0
3,200	(LN-79B)			

LN-94 Study of the Biological Basis for Lead Intoxication; Harvard Medical School

Progress on this project is satisfactory. The most recent progress report on this project, dated July 20, 1967, covered the work done from August 1, 1966 to July 1, 1967.

<u>Approved</u>	<u>For</u>	<u>Against</u>	<u>Abstained</u>
<u>ILHRO</u>			
\$52,853	13*	0	0

* Including one vote submitted by mail by Associated Ocel Company, Limited.

LN-106 Lettering Lead Abstracts; University of Cincinnati

This project is in its third year. Comments are still being received from all over the world concerning the great value of this project to those interested in lead toxicology.

<u>Approved</u>	<u>For</u>	<u>Against</u>	<u>Abstained</u>
<u>ILHRO</u>			
\$5,500	13*	0	0

* Including one vote submitted by mail by Associated Ocel Company, Limited.

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- LN-112 Bone Marrow Biopsy as a Measure of the Total Body Lead Burden; Contractor has not as yet been selected.
- LN-113 Lead and Tumors of the Kidney in Rats; Contractor has not as yet been selected.
- LN-114 Neurophysiological Effects from Lead Exposure; Contractor has not as yet been selected.

Contracts for these three projects have not been placed as yet. The staff reported that an attempt is still being made to place all three projects with one contractor in order to minimize costs. The problem has been with LN-114, as no satisfactory proposals on this project have as yet been received.

Dr. Calandra suggested that the LN-112 and LN-113 studies not be conducted as this work is being done by other research organizations. Instead, he suggested that the funds allotted for these studies be assigned to LN-114, as it is felt that the sum set aside for this project is not adequate.

Dr. Diggs pointed out that an in-house study is being conducted by du Pont on LN-113.

Following discussion it was unanimously agreed that the funds allotted for projects LN-112, LN-113 and LN-114 be combined into one total sum which could be applied to any one or all of the projects pending an investigation of data being developed in these areas by other organizations. A medical advisory panel, consisting of Dr. Calandra, Dr. G. J. Stoppe and Dr. G. Roush, was appointed to make the investigation and to submit recommendations to the Committee. The vote on combining the total funds in this basic area was as follows:

Approved		For	Against	Abstained	
ILZAO	TEL				
\$15,000	\$15,000	(LN-112) (LN-113) (LN-114)	12	0	0

LN-115 Six Cities Study; University of Cincinnati

The staff distributed copies of a letter, dated September 15, 1967, from Dr. Norton of the U.S. Public Health Service which was received together with a letter dated July 26, 1967 from Dr. Tepper of Kettering describing certain modifications to Kettering's original proposal for the new Six Cities Study.

Following discussion, the Kettering project was approved in principle with the stipulation that several details in the proposal be straightened out, that one or two additions be made to the protocol, and that details as to the funding be completed.

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Mr. Nelson reported that he had visited Professor Vigliani's laboratory in Milan, and recommended that Milan be included in the proposed new study. However, he recommended that analyses be performed by Kettering for the purpose of standardizing test procedures. Following discussion, the Committee decided that Milan should not be included in the proposed study.

Approved		For	Against	Abstained
ILZNO	TEL			
\$50,000	\$50,000	13*	0	0

* Including one vote submitted by mail by Associated Octel Company, Limited.

LN-119 The Use of Lead Isotope Composition as an Environmental Tracer;
Isotopes, Inc.

The latest progress report on this project, dated September 20, 1967, was distributed at the meeting.

It was suggested that this item be deferred until the Committee members have an opportunity to study the report. Mr. Hesselberg volunteered to have a critique on the report prepared by Dr. Hawkes of Ethyl within one week so that a subcommittee could meet with the contractor within two weeks following the meeting. He suggested an evening meeting by the subcommittee members on October 5, 1967 to review Ethyl's critique of the report, followed by a meeting with the contractor on October 6.

Following extensive discussion, it was moved, seconded and voted that the funds for this project be approved, subject to the subcommittee's recommendation following its meeting with the contractor. The vote on this motion was as follows:

Approved		For	Against	Abstained
ILZNO	TEL			
\$15,500	\$15,500	11*	2	0

* Including one vote submitted by mail by Associated Octel Company, Limited.

LN-126 1. Effect of Lead on Tissue Culture of the Nervous System;
2. The Influence of Lead on Synthesis of DNA in Mammalian Cells;
University of Wisconsin

The staff reported that this work would be a continuation of project LN-117 Effects of Lead on Tissue Cultures of the Central Nervous System which was conducted at Columbia University and was completed earlier this year. It was noted that the investigator had moved from Columbia to the University of Wisconsin.

Following discussion, it was decided that this project not be approved.

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<u>Not</u> <u>Approved</u>		<u>For</u>	<u>Against</u>	<u>Abstained</u>
<u>ILZRO</u>	<u>TEL</u>			
\$7,500	\$7,500	1*	10	2

* Submitted by mail prior to meeting by Associated Ocel Company, Limited.

LM-136 Study of Lead Release from P.V.C. Piping: Contractor has not as yet been selected.

The staff reported that it was experiencing considerable difficulty in securing a contractor for this project for the amount budgeted following its inability initially to make arrangements with the National Sanitation Foundation for a study that would have given us their approval to market pipe containing lead stabilizers for potable water use. It was noted that contacts for this purpose had been made with Schools of Public Health at Harvard, Johns Hopkins, and the University of North Carolina. The proposal from the University of North Carolina which was received the morning of the meeting, was discussed by the Committee members and was considered unsuitable.

Following discussion, it was decided that the funds approved last year for this study should be brought forward into the 1968 budget.

<u>Approved</u>	<u>For</u>	<u>Against</u>	<u>Abstained</u>
<u>ILZRO</u>			
\$10,000	12	0	0

Undesignated Research Funds

It was agreed by the Committee that an additional \$25,000 should be added to the over-all budget to serve as a contingency fund.

<u>Approved</u>	<u>For</u>	<u>Against</u>	<u>Abstained</u>
<u>ILZRO</u>			
\$25,000	12	0	0

b. Projects reported on which were authorized in previous budget meetings and require no additional funding:

LM-86 Lead Glasses for Pinnerware: Rutgers, The State University

The laboratory work has been completed. An extension of the contract to August 31, 1968 without any additional funding has been granted in order that the contractor may complete the development of a manual based on the findings from this study.

LM-109 Study of the Relationship between the Lead from Motor Vehicle Exhaust and that in Cerebral Tissue: University of California

Progress on this project is satisfactory.

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Isotopes, Inc.
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DURATA

TABLE 3. Isotopic Composition of NIS-200 (Galena)

	Atom Percent			
	<u>204</u>	<u>206</u>	<u>207</u>	<u>208</u>
Isotopes, Inc.	1.549	22.60	22.65	53.20
	1.552	22.56	22.56	53.32
	1.536	22.67	22.56	53.44
	1.527	22.40	22.63	53.44
	1.545	22.59	22.72	53.13
Mean	1.542	22.52	22.62	53.31
σ	± 0.0046	± 0.039	± 0.030	± 0.063
X	$\pm .20\%$	$\pm .17\%$	$\pm .13\%$	$\pm .17\%$
Cal. Tech. T.J. Glue (1)	1.540	22.48	22.62	53.36
σ	± 0.002	± 0.01	± 0.01	± 0.02
X	$\pm 0.13\%$	$\pm 0.04\%$	$\pm 0.04\%$	$\pm 0.04\%$

Note 1. Analysis reported in NIS Technical Note 51, Isotopic Abundance Ratios Reported for Reference Samples Stocked by the National Bureau of Standards, Mean of 30 analyses, triple filament. The difference noted in the σ for the above data is a direct reflection of the number of runs to date.

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LN-110 Rate of Uptake of Lead by Body Stores during Continuous Inhalation of Lead by Rats; University of Cincinnati

LN-111 Body Stores of Lead Following Continuous vs. Intermittent Inhalation of Lead; University of Cincinnati

Progress reports on these two projects were received from the contractor and returned for correction of typographical errors. The contract has been extended for one year without any additional funding.

LN-118 Study of Lead Burdens in Laboratory Animals; Wayne State University

The contract on this project has been extended for one year without any additional funding.

There being no further business, the meeting was adjourned at 2:15 p.m.

James C. Roumas, JR.

James C. Roumas, Recording Secretary

JCR:sv
10-2-67