

LEAD INDUSTRIES ASSOCIATION, INC.

202 MADISON AVENUE

NEW YORK 17, N. Y.

SUBJECT TO REVISION

ANNUAL MEETING OF THE MEMBERS OF THE

LEAD INDUSTRIES ASSOCIATION, INC.

Chicago, Illinois

April 29-30, 1963

The annual meeting of the members of the Lead Industries Association, Inc., was held on Monday and Tuesday, April 29-30, 1963 at the Drake Hotel, Chicago, Illinois.

Members Present

Max Adler
Clarence K. Conard
Vincent E. Dorman
John J. Lennon
J. C. Buck
R. L. Jourdan
W. P. Roe
J. S. Smart, Jr.
Simon D. Strauss
R. D. Taylor
Kenneth A. Phillips
H. L. Young
P. H. Hurless
David J. Rowland
Herbert M. Weed
Frank P. Barton
Julian S. Bers
Leon Rose
R. J. Hopkins
Otto F. Bauer
Ralph H. Cutler, Jr.
H. W. Halton
Sidney E. Sweet
Frank Gregory
Douglas S. Burwood
Patrick Wm. Robinson
A. Y. Bethune
M. E. Elmore
John M. Halvala
George A. Larson
C. E. Schwab
I. L. Barker
Gerald P. Sorell
Ivor Thompson

Representing

Allied Smelting Corp.
American Metal Climax, Inc.
do
do
American Smelting & Refining Co.
do
do
do
do
do
American Zinc, Lead & Smelting Co.
do
Anaconda Sales Co.
do
do
G. A. Avril Co., Lead Products Div.
Bers & Co., Inc.
do
Broken Hill Smelters Pty. Ltd.
(C. Tennant, Sons & Co. of N.Y., Agents)
do
do
do
(Conzinc Sales Ltd.)
(The Rio Tinto-Zinc Corp. Ltd.)
do
The Bunker Hill Co.
do
do
do
do
Cerro Corp.
Cerro Sales Corp.
do


Look Ahead with Lead

Annual Meeting Minutes

-2-

April 29-30, 1963

Lott L. Taylor	Compania Minera Asarco, S.A.
R. C. Bell	Consolidated Mining & Smelting Co. of Canada, Ltd.
J. P. M. Douglas	do
H. T. Fargey	do
E. H. Gautschi	do
J. H. D. Hargrave	do
Robert Hendricks	do
A. V. Marcolin	do
A. D. Turnbull	do
C. B. Anderson	Delco Remy Div., General Motors Corp.
Don Badgley	do
E. A. Black	do
Samuel P. Miller	do
Cecil Bassett	Dixie Lead Co.
J. R. Sabina	E. I. Du Pont de Nemours & Co.
George Strong	do
D. R. Carter	The Eagle-Picher Co.
John Wade	do
K. W. Green	The Electric Storage Battery Co.
E. R. Anderson	Ethyl Corp.
J. A. Costello	do
A. M. Callis	Federated Metals Div., American Smelting & Refining Co.
Harvey D. Ferer	Aaron Ferer & Sons Co.
R. A. Gardiner	Gardiner Metal Co.
W. P. Haas	Hammond Lead Products, Inc.
William Wilke, Jr.	do
W. P. Wilke, III	do
H. P. Magnuson	Lucky Friday Silver-Lead Mines Co.
A. B. Millaly	Metalead Products Corp.
J. V. Murph	Murdock Lead Co.
Byron Rothplets, Jr.	do
Jack Belay	National Lead Co.
John Jennings	do
Emmett A. Torney	do
William J. Welch	do
Robert L. Oatey	L. R. Oatey Co.
V. J. Brazier	Olin Mathieson Chemical Corp.
J. R. Higgins	do
Malcolm Bonyng	St. Joseph Lead Co.
Andrew Fletcher	do
Chuck Henderson	do
Charles R. Ince	do
William P. Hoffman	do
Carl Long	do
Donald K. Lourie	do
J. A. Reising	do
Lawrason Riggs, III	do
Joseph G. Sevrick	do
John W. Sherman	do
Gerson M. Levyns	Societe Miniere et Metallurgique de Penarroya (International Selling Corp., Agents)
Richard W. Conley	United States Smelting Refining & Mining Co.
G. Howard LeFevre	do
John Metcalfe	do

Annual Meeting Minutes

-3-

April 29-30, 1963

F. C. Sayers
 P. L. Warner
 Howard Novasell
 Reuben Viener
 B. P. McKinney
 Robert M. Quenell
 C. R. Willard

United States Smelting Refining and Mining Co.
 do
 Victory White Metal Co.
 Hyman Viener & Sons
 Western Lead Products Co.
 do
 Willard Lead Products Co.

Guests

Jean Adamian
 Richard J. Bauer
 H. Becker-Fluegel
 Philip R. Blane
 Allen E. Compagno
 J. D. Conover
 M. P. Cotter
 T. L. Diamond
 George H. Eddleman
 B. E. Estes, Jr.
 Dr. R. Fitch
 E. L. Frank
 Edward S. Fruhling
 Arthur J. Gervais
 Paul Guterman
 Dr. S. G. Harris
 J. B. Haffner
 Paul V. Higgins
 Dr. W. G. Hiscock
 W. D. Hook
 Robert I. Horvitz
 Isuro Jimura
 David A. Jackson
 Jacques Jerusalem
 F. R. Jeffrey
 George E. Kruger
 Jean-Louis Leenders
 Ralph Levenson
 R. G. Mason
 J. P. McMahon
 H. J. Meiser
 George V. Michael
 Laymon N. Miller
 Ernest Mugdan
 Jack O'Connell
 Edward Orkin
 Takeshi Otsuka
 Howard M. Palmer
 J. W. Patterson
 Homer Preisser
 B. T. Rabuse
 J. Rathjen
 A. A. Scharf
 George F. Sharrard

Transamine
 Henning Bros. & Smith, Inc.
 W. R. Grace & Co.
 Indussa Corp.
 W. R. Grace & Co.
 American Mining Congress
 The Northern Miner
 T. L. Diamond & Co., Inc.
 Imperial Type Metal Co.
 United States Steel Corp.
 Australian Embassy
 Philipp Brothers
 Parsons-Jurden Corp.
 International Minerals & Metals Corp.
 Bache & Co.
 Canadian Embassy

O. S. Tyson & Co., Inc.

W. R. Grace & Co.
 Continental Smelting & Refining Co.
 Kinsho-Mataichi Corp.
 Inland Metals Lake Calumet
 Cia Royale Asturienne des Mines
 National Zinc Co., Inc.
 Chase Manhattan Bank
 Societe Generale des Minerais
 Miles Metal Corp.
 Globe Union, Inc.
 Alfred University
 Metallgesellschaft A. G.
 Plastics Design & Processing
 Bolt Beranek and Newman, Inc.
 Ore & Chemical Corp.
 E & MJ Metal & Mineral Markets
 Metal Traders, Inc.
 Mitsui Mining & Smelting Co., Ltd.
 Lewis-Shepard Co.
 Dept. of Mines & Technical Surveys, Canada

Gould-National Batteries, Inc.
 Primary Metal & Mineral Corp.
 Philipp Brothers
 Kennecott Copper Corp.

Annual Meeting Minutes

-4-

April 29-30, 1963

Ray Sloan	Cosco Smelting
James V. Stafford	American Metal Market
Joe A. Stone	Division Lead Co.
H. J. Sullivan	International Minerals & Metals Corp.
William F. Tamplin	United States Steel Corp.
Louis Villaseñor S.	Cia. Fresnillo, S. A.
V. C. Wansbrough	Canadian Metal Mining Association
Brian Wilson	Steel Magazine
Clark L. Wilson	Emergency Lead-Zinc Committee
Alan Wrigley	Metalworking News

Government Representatives

Clarence A. Fredell	General Services Administration
Henry G. Iverson	U.S. Dept. of the Interior, Metallurgy Research Branch
Hon. John M. Kelly	U.S. Dept. of the Interior, Assistant Secretary
Joseph C. McCaskill	U.S. Dept. of the Interior, Office of Assistant Secretary
Albert D. McMahon	U.S. Dept. of the Interior, Bureau of Mines
Joe B. Rosenbaum	U.S. Dept. of the Interior, Bureau of Mines
J. A. Rowland	U.S. Dept. of the Interior, Bureau of Mines
Richard M. Spencer	U.S. Dept. of the Interior, Bureau of Mines

Lead Industries Association, Inc. Staff

Robert L. Ziegfeld, Executive Vice President & Treasurer
 David H. Borcina, Secretary & Assistant Treasurer
 Bruce Fader, Manager, Technical Services
 Don G. Fowler, Director of Health & Safety
 Edwin D. Martin, Manager, Architectural Services
 Jerome F. Smith
 Robert B. Travis

International Lead Zinc Research Organization Staff

Dr. Schrade F. Radtke, Director of Research
 George J. Bilek
 Albert R. Cook
 Samuel E. Eck
 Louis Kettler

The minutes of the previous meeting of April 10-11, 1962 were circulated to members after that meeting and no changes or corrections were received.

The president welcomed the participants at the meeting and made the following remarks:

Welcome to the Annual Meeting of the Lead Industries Association! Since this is the Thirty-fifth Anniversary it might not be amiss to review briefly the history of our Association, particularly for the benefit of those who may have joined our group in recent years.

In 1928, at the instigation of the late Clinton H. Crane, then president of the St. Joseph Lead Company, and with the cooperation of other leaders in

Annual Meeting Minutes

-5-

April 29-30, 1963

the lead industry, ten lead producing and consuming companies in the United States and Canada subscribed equally to an underwriting fund to finance establishment of a trade association for the lead industry. The services of Felix E. Wormser, a consulting mining engineer and former associate editor of "Engineering and Mining Journal," were engaged to interest both lead producers and consumers in joining such an association. In November, 1928, the Lead Industries Association was formally organized with 35 member companies. The underwriters were reimbursed for the organizational funds they had advanced, and the Association became self-sustaining on its membership subscriptions. The first annual budget, that for 1929, was \$30,000. Mr. Wormser was appointed secretary and treasurer and Mr. Crane was elected president and board chairman. These men occupied these positions respectively until 1947 and 1948.

L.I.A. at that time was and still is somewhat unusual in that it is a vertical association with its membership drawn from lead miners, lead smelters and refiners, lead manufacturers and even makers of products in which lead is only a component, such as ammunition, cable and batteries.

Among the first activities of L.I.A. were the collection and dissemination of statistics. These included reports of pig lead sales in the U.S. and, being a vertical association, shipments of various lead products. There has been little change in the statistical services of the Association throughout the years except to expand or alter them as the need arose.

Another very early activity was in the field of hygiene. Recognizing both its public responsibility and the harm done to the lead business by misunderstandings and lack of knowledge of lead toxicology, the Association began the support of worthy work in this field early in its existence. The now famous research work of Dr. Joseph C. Aub and others in this field has had financial and other kinds of support throughout the years. In 1948 a full time staff position of Health and Safety Director was established to guide and coordinate such activities, maintain contacts with public health officials, and disseminate accurate information on the subject. This work continues on an intensified level today.

Also, early in its existence the L.I.A. began the promotion of lead and its products by publication of technical books and establishment of its own house organ LEAD, supplemented by publicity in the trade papers and exhibits at trade shows. In more recent years space advertising has been resorted to in order to reach beyond our immediate customers and influence the design engineers and architects who are responsible for specifying the use of our products.

All of these promotional tools result in a vast number of inquiries for literature or technical service each year. Last year these amounted to over 7,000 individual inquiries for more than 30,000 pieces of literature. Consequently, the technical service provided by the staff in handling such inquiries and in preparing technical literature is the core of L.I.A.'s operations. Seven specialists in various fields of technology and lead application, from whom you will hear later in our program, constitute this technical service organization which is now headed by Robert L. Ziegfeld, who succeeded Felix Wormser in 1947 as secretary and treasurer of the L.I.A. and became executive vice president in 1961. Mr. Ziegfeld is a mining engineer and has been with the Association since 1929, four months after its organization.

Annual Meeting Minutes

-6-

April 29-30, 1963

The need for joint research to develop new products and markets and protect old ones was recognized with the organization of the Technical Steering Committee, composed of top technical men of member companies, authorized in 1954. Out of this came organization of the Cable Sheathing Task Group in 1955 and the subsequent program to perfect the continuous extrusion of lead cable sheathing. Also the Ceramics Technical Committee was formed in 1955 which resulted in the broad research fellowship program on lead in ceramics started in 1957. The use of lead in ceramics in the U.S. has shown substantial growth since that time. The Technical Steering Committee also initiated an investigation of the research needs of the lead industry by Battelle Memorial Institute in 1957. In the same year a study of how the use of lead in the architectural field could be expanded was made for us by the well-known architectural-engineering firm of Skidmore Owings and Merrill.

Research did not become a separate major activity of the Association until about four and a half years ago with the establishment of the Expanded Research Program under Dr. Schrade Radtke as research director and the enlistment of broader support for research from producers throughout the Free World. Although L.I.A.'s promotional efforts have long been supported by world producers who sell pig lead in the States, foreign participation in the Research Program has been most welcome and is recognition of our common cause in creating new markets for our metal.

From its modest start 35 years ago, L.I.A. has become a highly respected technical and educational organization of about 60 members with an annual budget now close to \$1,000,000, split about half and half between research and market development. Organization of E.R.P. has served to focus attention on the need of technical advancements as a stimulus to new markets.

In the early days of the Lead Industries Association promotional programs were jointly financed by the lead producers and manufacturers in ratios mutually agreed upon for each specific product, such as pigments, metallic lead products and so forth. By the early 1950's the producers began to realize that if any major promotional efforts were to be undertaken they would have to be largely, or even exclusively, financed by the pig lead sellers.

Therefore, in 1954 at an informal meeting of the producers it was decided to establish a new Industry Development Fund, which would be subscribed only by the lead sellers on the basis of tonnage sold in the United States, and would be administered by a committee representing each of the producers subscribing to this fund. Formation of this committee, later known as the Industry Development Committee, was officially approved by the Board of Directors on November 30, 1954 at the same meeting at which formation of the Technical Steering Committee was approved. Subsequently no funds were requested for promotional activities from manufacturers and the Industry Development Fund became the only promotional fund.

The Industry Development Committee today is not only responsible for the guidance of the promotional activities, but also reviews the commercial aspects of research programs after their technical feasibility has been approved by the Technical Steering Committee. The I.D.C. makes the final recommendation on all Association funds, including E.R.P., to the Board of Directors. In recognition of the support foreign producers have given the research program, steps are now being taken to provide two places on our Board for representatives of this group.

Annual Meeting Minutes

-7-

April 29-30, 1963

REPORT OF EXECUTIVE VICE PRESIDENT, SECRETARY AND TREASURER

The detailed report of the executive vice president, treasurer and secretary was circulated to members on April 8, 1963:

REPORT OF NOMINATING COMMITTEE FOR DIRECTORS

Mr. John J. Lennon, chairman of the Nominating Committee for the Board of Directors, reported for his Committee, composed, in addition to himself, of Messrs. G. H. LeFevre, Howard T. Morgan, Virgil Murph and Miles M. Zoller, and placed in nomination the following slate:

Julian Bers	Bers & Company, Inc.
R. D. Bradford	Federated Metals Division, American Smelting and Refining Co.
D. R. Carter	The Eagle-Picher Co.
J. A. Costello	Ethyl Corp.
K. W. Green	The Electric Storage Battery Co.
Robert Hendricks	The Consolidated Mining & Smelting Co. of Canada, Ltd.
R. J. Hopkins	The Broken Hill Associated Smelters Proprietary Ltd.
F. H. Hurlless	Anaconda Sales Co.
C. R. Ince	St. Joseph Lead Co.
J. A. Martino	National Lead Co.
C. G. Rice	United States Smelting Refining & Mining Co.
C. E. Schwab	The Bunker Hill Co.
S. D. Strauss	American Smelting & Refining Co.
Jean Vuillequez	American Metal Climax, Inc.
W. P. Wilke, III	Hammond Lead Products, Inc.

There being no further nominations the slate was unanimously elected.

AMENDMENTS TO BY-LAWS

The secretary reported that the Board of Directors had recommended the adoption of the proposed amendments to the By-Laws of the Association, which were submitted to the members on April 1, 1963.

A motion was thereupon made, seconded and unanimously approved incorporating the proposed amendments into the By-Laws of the Association.

ADDRESSES AT MEETING

The following talks were delivered at the annual meeting and copies are available upon request:

New Family of Lead-Glazed Light-Weight Structural Products.....J. F. McMahon, Dean, College of Ceramics, Alfred University, State University of New York

Lead Anti-Knock Compounds — World Wide.....J. R. Sabina, Manager, Anti-Knock & Planning, Organic Chemicals Dept., Petroleum Chemicals Div., E.I.-du Pont de Nemours & Company, Inc.

Leaded Plastics.....George V. Michael, Editor, Plastics Design & Processing

Annual Meeting Minutes

-8-

April 29-30, 1963

Report of Expanded Research Program.....S. F. Radtke, Research Director, L.I.A. -
E.R.P.

Outlook for Lead Batteries.....Kenneth W. Green, Purchasing Agent, Electric
Storage Battery Co.

L.I.A. Staff Report.....Robert L. Ziegfeld, Executive Vice President, L.I.A.
& Staff

Battery Powered Industrial Truck — Advantages & Outlook.....Howard M. Palmer,
Vice President & General Sales Manager, Lewis-Shepard Co.

Terne Plate, Present & Future.....William F. Tamplin, Assistant Manager, Sheet
& Strip Products Commercial, U.S. Steel Corp.

Field Experience with Lead-Asbestos Anti-Vibration Pads.....Laymon M. Miller,
Bolt Beranek & Newman, Inc.

The International Situation Regarding Metals, in Particular Lead & Zinc.....
J. N. V. Duncan, Managing Director, The Rio Tinto-Zinc
Corp., Ltd., London, England

An Address.....The Honorable John M. Kelly, Asst. Secretary for Mineral Re-
sources, U.S. Dept. of the Interior, Washington, D.C.

Economic Growth & Metals Demand.....B. E. Estes, Jr., Vice President-Marketing,
U.S. Steel Corp., Pittsburgh, Pa.

ANNOUNCEMENT OF REELECTION OF OFFICERS

The reelection of the following officers for the ensuing year, at the
meeting of the Board of Directors on April 29th, was announced:

C. R. Ince, President and Chairman of the Board
J. S. Smart, Jr., Vice President
C. E. Schwab, Vice President
W. P. Wilke, III, Vice President
Robert L. Ziegfeld, Executive Vice President-Treasurer
David M. Borcina, Secretary-Assistant Treasurer

David M. Borcina
Secretary