

LEAD INDUSTRIES ASSOCIATION

480 LEXINGTON AVENUE

NEW YORK 17, N. Y.

CONFIDENTIAL

SUBJECT TO REVISION

PIGMENTS AND CHEMICALS DIVISION

White Sulphur Springs, W. Va.

April 9, 1953

A meeting of the Pigments and Chemicals Division of the Lead Industries Association was held on April 9, 1953 at the Greenbrier Hotel, White Sulphur Springs, West Virginia. The following individuals attended:

MEMBERS

REPRESENTING

Harold Hertsg
H. F. Bittner
George Blackett
Vincent Dorman
E. Hermsdorf
J. J. Lennon
Thomas G. Moore
Jean Vuillequas
A. Corens

W. H. Vogelstein
W. B. Clancy
Lynn H. Hart
Julian S. Bers
Leon M. Rose
George E. Mische

J. B. Haffner

A. W. Goose
A. Russell Mers
R. Hendricks

Henry L. Day
J. A. Stone
A. C. Jones
O. L. Knowles
T. B. Prickett
S. J. Atickley
W. R. Dice
O. P. Hense
Arthur R. Knight
J. A. Costello
Ray M. Evans
E. L. Newhouse, III

Alpha Metals, Inc.
American Metal Co. Ltd.

do

do

do

do

do

do

Compania Metalurgica Penoles, S.A.,
(American Metal Co. Ltd.)

do

American Smelting & Refining Co.

do

Bers & Co. Inc.

do

Broken Hill Associated Smelters Pty., Ltd.
(C. Tennant, Sons & Co., Agents)

Bunker Hill & Sullivan Mining & Con-
centrating Co.

Cambridge Smelting Co.

Cerro de Pasco Corp.

Consolidated Mining & Smelting Co.
of Canada Ltd.

Day Mines, Inc.

Division Lead Co.

E. I. duPont de Nemours & Co.

do

do

do

Eagle-Picher Co.

do

Huston Lead Co.

Ethyl Corp.

Evans Lead Co. (National Lead Co.)

Federated Metals Div., American
Smelting & Refining Co.



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R. A. Gardiner, Jr.
Clarence Glass

Frank A. Wardlaw, Jr.
Rudolph Spitzer
David A. Merson
P. W. Ruppert
Alex. Stewart
Kenneth T. Gordon
F. P. Gallagher
Charles E. Ince
Elmer A. Jones
R. J. Mechin
Felix E. Wormser
G. Howard Lefevre

George Mixer
Howard Kovasol
Reuben Tlener
T. O. Stover

Gardiner Metal Co.
International Smelting & Refining Co.
(Anaconda Sales Co., Agents)
International Smelting & Refining Co.
Metro Smelting Co.
National Lead Co.
do
do
Okonite Co.
River Smelting & Refining Co.
St. Joseph Lead Co.
do
do
do
United States Smelting Refining &
Mining Co.
do
Victory White Metal Co.
Hymen Vioner & Sons
Western Electric Co.

GUESTS

Max Adler
C. B. Anderson
William I. Powell
Miles P. Romney
James V. Stafford
F. F. Wolff

Allied Smelting Co.
Delco Battery Operations
American Mining Congress
Utah Mining Association
American Metal Market
Rudolf Wolff & Co.

GOVERNMENT REPRESENTATIVES

O. M. Bishop
Edmund E. Getzin
Thomas B. Nolan

U. S. Bureau of Mines
U. S. Department of State
U. S. Geological Survey

STAFF OF LEAD INDUSTRIES ASSOCIATION

Robert L. Ziegfeld, Secretary-Treasurer
David M. Borcina
Manfred Bowditch
Christy J. Vander Valk

The meeting was called to order at 9:30 A.M. by Alex Stewart, Chairman of the Pigments and Chemicals Division.

Mr. Stewart expressed his appreciation for the excellent attendance at the opening session of the Lead Industries Association Meeting. He then asked C. J. Vander Valk, technical director of the division, to review the progress of the red lead work during the previous year. A summation of the technical director's report is appended to these minutes.

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Iron Oxide - two samples	1.0
Micolith G	1.3
Zinc Oxide	2.0
Titanium Dioxide	2.3
Zinc Chromate	2.3
Magnesium Silicate	3.0
Normal Lead Chromate	3.3
Red Lead 97% grade	4.7
Basic Lead Silicate	5.3
Lead Silicate	5.3
Basic Lead Chromate	5.7
Litharge	6.7
Basic Lead Carbonate	7.0
Blue Lead	10.0
Basic Lead Sulphate	10.0

It was pointed out that the iron oxides used were only about 75% and 85% pure iron oxide (Fe_2O_3).

Mr. Woldrich reported on vertical welds on unpigmented vehicle films 1.8 to 2.8 mils thick. The porosity was slight in all tests. The operating characteristics and appearance were all satisfactory. The vehicles tested were those used in paints TT-P-86, 52-MC-21, L.I.A. 118 and 52-P-18. His conclusion was that the vehicles have no effect on the welds.

It was then decided that the following mixtures of pigments by weight should be used in vertical fillet welds to determine their effects:

1. 90% Red Lead
10% Zinc Chromate
2. 90% Red Lead
10% Zinc Oxide
3. 90% Red Lead
10% Titanium Dioxide
4. 75% Red Lead
15% Basic Carbonate White Lead
10% Iron Oxide
5. 75% Red Lead
10% Calcium Carbonate
15% Iron Oxide
6. 55% Red Lead
10% Zinc Oxide
10% Zinc Chromate
7% Iron Oxide
18% Micolith G
7. 55% Red Lead
10% Zinc Chromate
2% Iron Oxide
23% Asbestine
10% Micolith G
8. 75% Red Lead
25% Iron Oxide

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It was decided to use a siliceous 80% Pb_2O_3 grade of iron oxide throughout the tests.

It was concluded that lead seems to cause porosity but the effect of this on strength has not definitely been determined. However, porosity might affect acceptance if the inspector is looking for porosity.

It was decided in further work to make transverse weld tensile tests on the same paints on which the regular tensile tests were being made, L.L.A. paint No. 111 to be applied after each pass, as well as in one application only.

The Committee decided to wait for a full report on the completed work until later in order to save Mr. Voldrich time. It expressed a desire to have a summary report now covering the work on which Mr. Voldrich had reported orally at the meeting.

NEXT MEETING

The Committee decided to have its next meeting in New York on February 15 and 16, 1946, at which time Mr. Voldrich would have as much of the additional work completed as possible.

The Secretary was requested to provide Mr. Voldrich with copies of the part of the minutes of the meeting of December 7, 1945 dealing with the discussion of his work at the Battelle Memorial Institute.

Mr. Voldrich then left the meeting.

RED LEAD LABELING

Mr. Ziegfeld then reported that favorable replies on the Committee's recommendation on the labeling of red lead paint, drafted at the previous meeting, had been received from:

Engle Picher Company
 Hammond Lead Products, Inc.
 National Lead Company
 Sherwin-Williams Company

The Committee decided that the wording should be sent on to the National Paint Varnish and Lacquer Association if and when approval is received from the Glidden Company.

MUTUAL CHEMICAL COMPANY OF AMERICA -

The Chairman then read a letter written by the Secretary to the Mutual Chemical Company regarding their advertising, and the reply from that company, which was not considered satisfactory. This correspondence is attached as Exhibit "A."

ANDREW BROWN COMPANY

The Chairman pointed out that no reply had been received from Andrew Brown Company to a letter protesting misstatements in their advertising.

It was felt that a letter should be written to the Editor of "Southwestern Purchasing Agent" answering the article by the Chief Chemist of Andrew Brown Co. and that a complaint should be made to the Federal Trade Commission on the Andrew Brown Company advertising, as authorized by the Executive Committee of the Association.

"OFFICIAL DIGEST" ADVERTISING

A request that the Lead Industries Association advertise in the "Official Digest" (published by Federation of Paint & Varnish Production Clubs) was read and

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the Committee recommended that the Association should take some advertising provided it did not duplicate in the same publication, the advertising effort of members, and that some of the Association's space be devoted to red lead.

U.S. DEPT. OF LABOR BULLETIN

At this point, Mr. Coetz exhibited a copy of Bulletin 839 of the U. S. Department of Labor, entitled "Fatal Work Injuries in Shipyards - 1943 and 1944," obtainable from the Government Printing Office for 10¢. He emphasized that this report of shipyard injuries made no mention of the occurrence of lead poisoning.

RESEARCH DIRECTOR

The Secretary asked if the Committee had any objection to engaging a Research Director to head both the Red Lead and White Lead Research programs.

The Committee expressed no objection.

Three applications for the position were considered to have the best possibilities, these being from:

A. L. Alexander
Naval Research Laboratory
Anacostia Station
Washington 20, D.C.

F. G. Pearson
U.S. Maritime Commission
Washington, D.C.

Frank E. Wilson
Scapolin Company
228 E. 42nd St.
New York 17, N.Y.

It was suggested that these three applicants might be asked to have a meal with the Committee at the time of its next meeting, one being asked for breakfast, another for lunch and another for dinner, in order that the Committee and the applicant might meet.

The Secretary was to arrange this for February 18, 1946.

Mr. Coetz suggested the Secretary acknowledge all applications for the position.

PAPER ON MARINE PRIMERS

The Committee then proceeded to a consideration of the revised paper on marine primers and made some corrections. It was the consensus of opinion that the section entitled, "Conclusions" should be completely rewritten.

The Committee decided that the paper should in addition to its title carry the following by-line:

"Lead Industries Association
Red Lead Technical Committee,
L. L. Carriek, Director"

The meeting adjourned at 7:00 P.M.

H. E. Johnson
Secretary.

C O P Y

EXHIBIT A

MUTUAL CHEMICAL COMPANY OF AMERICA
270 Madison Avenue
New York 18, N.Y.

January 9, 1948

Mr. Felix Wormser
Lead Industries Association
420 Lexington Avenue
New York 17, N.Y.

Dear Felix:

I was very interested to have your note of January 7, mentioning one of our recent advertisements concerning zinc chromate primers and your remarks that you have red lead paints available, which in your opinion are superior to zinc chromates for maritime use etc. I was also interested in hearing what you had to say concerning lead chromate pigments.

For your information we are not in the pigment business, confining our relationship therein to supplying the pigment people with heavy chromium chemicals. However, as you know lead chromate has been a well known and reliable pigment for many years whereas zinc chromate has been a more or less recent development and consequently less generally known to industry. It is for this reason that we chose to give zinc chromate some publicity.

With kindest regards,

Sincerely yours,

(Signed) ENOCH PERKINS

EP:JM

CC: Mr. Benington