

Bonne Terre, Mo.
Dec. 8th, 1943.

Received
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Memo to Mr. E. F. Murphy:

Referring to the attached correspondence
relative to Bulletin 66 - Lead Hygiene and Safety.

Mr. Miller suggests that the five individuals listed would benefit by having a copy of the proceedings of the conference.

W. C. Bochart.

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Date December 8th 1948

[illegible]

ST JOSEPH LEAD COMPANY
Company Signed

B. F. Murphy, General Manager.

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LEAD INDUSTRIES ASSOCIATION

420 LEXINGTON AVENUE

NEW YORK 17, N. Y.

December 2, 1948

LEAD HYGIENE AND SAFETY

BULLETIN NO. 66

To Members of the Lead Industries Association:

The Association's Lead Hygiene Conference was held as planned, at the Bismarck Hotel, Chicago, on Monday and Tuesday, November 15th and 16th. Speakers and discussion leaders were as announced in our bulletin of October 15th, with the exception of Dr. Aub, who was unavoidably absent. This discussion was ably led by Dr. May R. Mayers, chief of the Medical Unit of the New York State Labor Department's Division of Industrial Hygiene and Safety Standards. The dinner address of Mr. Fred M. Gillies, works manager of the Inland Steel Company's Indiana Harbor Works, "The Production Manager Looks at Industrial Health," was an outstanding contribution.

Both the extent of the discussion evoked by the papers and the verbal and written comments on the conference as a whole indicate that it was a highly successful undertaking. Excerpts from some of the latter are enclosed.

The attendance totaled 109, with somewhat less than 100 present on each of the two days. Nineteen member companies were represented. A complete list of those in attendance is also herewith.

After editing by the participants, the full proceedings of the conference will be published. Although neither the cost nor the basis of distribution can yet be determined, a volume of some 175 printed pages is anticipated and it is therefore important that an estimate of the demand for copies be reached. Accordingly, you are asked to fill out and return one of the enclosed pink sheets, listing the names of all individuals in your organization who are likely to require copies of the proceedings. It will be noted that this does not constitute a formal order for copies.

Very truly yours,

Manfred Bowditch
Manfred Bowditch
Director of Health and Safety

W.C.B.



RECORDED 6 - 1948



Rec'd 12/2/48

COMMENTS ON THE L.I.A. LEAD HYGIENE CONFERENCE, NOV. 15-16, 1948

"I certainly enjoyed the Lead Hygiene Conference and learned a great deal from it with respect to the problems in the field. I think you are to be congratulated on your excellent organization of the program." A. H. Corwin

"I find myself in complete accord with Dr. Lanza in his feeling that the recent Lead Hygiene Conference was one of the best meetings of its kind he had ever attended.

"There were three things which made this meeting an outstanding one; First, the excellence of the scientific papers and the valuable discussions; second, the opportunity to meet and speak with so many outstanding authorities in the field and third, the thought and care which went into the mechanical arrangements for the comfort and convenience of the guests.

"Both you and the Lead Industries Association are to be congratulated for your splendid contribution to the cause of industrial hygiene." L. J. Goldwater

"Congratulations on an outstandingly fine meeting - one which you and your association can feel proud to have promoted." G. C. Harrold

"I just want to repeat what I told you in person the other day that I am deeply grateful to you for inviting me to your meeting in Chicago. Unfortunately, I wasn't able to attend all of the sessions, but certainly those that I did attend impressed me as being very outstanding. From my conversations with others who were at your meetings, I heard nothing but the highest praise.

"My congratulations to you, and I hope if you have any similar conferences in the future, I may be included in an invitation." B. E. Kuechle

"That was a bang-up meeting you had in Chicago. I am sure that it got your safety program off to a very good start. It was quite an inspiration to have brought in the more unusual subjects such as BAL and air pollution which were really very thrilling." M. R. Mayers

"No doubt you have heard many times in the last few days of the very excellent conference which you arranged here in Chicago.

"I should like to add my name to that list to indicate to you that I felt that it was a real privilege to attend your conference, for it was one of the most informative meetings that I have attended in some time." K. M. Morse

"I wish to thank you for your invitation to attend the Lead Hygiene Conference in Chicago.

"It was one of the best meetings of this type that I have had the pleasure of listening to. I would be very much interested in any report on the meeting that you may publish in the future." I. R. Tabershaw

"The conference was most delightful and informative - very much worth while and you folks deserve great credit for a job well done." W. C. Wilentz

"Just a note to let you know how much I appreciate being included in your party in Chicago last week. All of us from the Liberty Mutual who attended felt that it was well worthwhile, and that it was very profitable to us." C. R. Williams

"I wish to tell you that I sincerely think the meeting put on by the Lead Industries Association was the best medical meeting I have attended in several years." J. W. Berry



ATTENDANCE AT L.I.A. LEAD HYGIENE CONFERENCE, NOV. 15-16, 1948

Member Representatives

Abersold, Dr. John N., American Smelting & Refining Co., Salt Lake City, Utah
Bock, R. C. A., M. D., Ethyl Corp., Baton Rouge, La.
Borcina, David M., Lead Industries Association, New York, N. Y.
Bowditch, Manfred, Lead Industries Association, New York, N. Y.
Breit, Morrie, Division Lead Co., Chicago, Ill.
Brull, Dr. John P., North American Smelting Co., Inc., Philadelphia, Pa.
Buck, Luther J., American Smelting & Refining Co., Alton, Ill.
Carney, Philip S., M. D., Division Lead Co., Chicago, Ill.
Cotter, Edward I., Goldsmith Bros., Smelting & Refining Co., Chicago, Ill.
Glaeser, Oscar A., U. S. Smelting Refining & Mining Co., Inc., Salt Lake City, Utah
Goldberg, L. W., United American Metals Corp., Chicago, Ill.
Hedgcock, H. H., Federated Metals Div., American Smelting & Refining Co., East Chicago, Ind.
Hergesheimer, L. H., M. D., John T. Lewis & Bros. Co. (National Lead Co.), Philadelphia, Pa.
Herndon, Dr. J. M., E. I. duPont de Nemours & Co., Wilmington, Del.
Hill, George R., American Smelting & Refining Co., Salt Lake City, Utah
Johns, David R., M. D., American Smelting & Refining Co., The Eagle-Picher Co., Metals Refining Co. (The Glidden Co.), East Chicago, Ind.
Johnson, Gunnard E., The Eagle-Picher Co., East Chicago, Ind.
Kagen, Leobard A., M. D., Goldsmith Bros. Smelting & Refining Co., Chicago, Ill.
Kestenbaum, E. G., National Lead Co., New York, N. Y.
King, Robert W., M. D., Hammond Lead Products, Inc., Hammond, Ind.
Lanahan, F. B., M. D., The Electric Storage Battery Co., Philadelphia, Pa.
Lauer, D. J., M. D., National Lead Co., Cincinnati, Ohio
Leonard, J. M., M. D., National Lead Co., Chicago, Ill.
Lynn, Robert B., M. D., American Smelting & Refining Co., Alton, Ill.
MacGregor, John R., John R. MacGregor Lead Co., Chicago, Ill.
McCaffery, Glenn, M. D., Bunker Hill & Sullivan Mining & Concentrating Co., Kellogg, Idaho
McLuillan, J. F., Federated Metals Div., American Smelting & Refining Co., Whiting, Ind.
Merrick, Edwin, U. S. Smelting Refining & Mining Co., East Chicago, Ind.
Miller, H. I., Jr., St. Joseph Lead Co., Bonne Terre, Mo.
Morgan, H. T., John R. MacGregor Lead Co., Chicago, Ill.
Mrencso, J. C., National Lead Co., Chicago, Ill.
Pinto, Sherman S., M. D., American Smelting & Refining Co., Denver, Colo.
Prater, A. H., Magnus Metals Div., National Lead Co., Chicago, Ill.
Raht, Kurt, Consolidated Mining & Smelting Co. of Canada, Ltd., Trail, B. C.
Rankin, S. L., M. D., E. I. duPont de Nemours & Co., Wilmington, Del.
Riley, Charles R., The Electric Storage Battery Co., Philadelphia, Pa.
Roebber, H. M., M. D., St. Joseph Lead Co., Bonne Terre, Mo.
Rogers, Charles R., Hammond Lead Products, Inc., Hammond, Ind.
Schowalter, E. J., M. D., Western Electric Co., Inc., Chicago, Ill.
Schrack, Herbert W., National Lead Co., St. Louis, Mo.
Senn, E. J., M. D., St. Joseph Lead Co., Bonne Terre, Mo.
Simmons, G. R., Western Electric Co., Inc., Chicago, Ill.
Taylor, Harry, Goldsmith Bros. Smelting & Refining Co., Chicago, Ill.
Thomas, M. D., American Smelting & Refining Co., Salt Lake City, Utah
Trainor, Pat, Federated Metals Div., American Smelting & Refining Co., Whiting, Ind.



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Treadway, F. C., The Eagle-Picher Co., East Chicago, Ind.
 Walters, G. C., National Lead Co., Chicago, Ill.
 Wheatley, A. M., John T. Lewis & Bros. Co. (National Lead Co.), Philadelphia, Pa.
 Wickemeyer, C., National Lead Co., Chicago, Ill.
 Williams, Joe T., Bunker Hill & Sullivan Mining & Concentrating Co., Kellogg,
 Idaho
 Wilentz, William C., M. D., National Lead Co., Perth Amboy, N. J.
 Wilke, W. P., III, Hammond Lead Products, Inc., Hammond, Ind.
 Wood, William G., M. D., National Lead Co., St. Louis, Mo.
 Woodbridge, F. L., The Eagle-Picher Co., Cincinnati, Ohio
 Worden, L. S., Goldsmith Bros. Smelting & Refining Co., Chicago, Ill.
 Wormser, Felix E., St. Joseph Lead Co., Lead Industries Association, New York,
 N. Y.
 Ziegfeld, Robert L., Lead Industries Association, New York, N. Y.

Guests

Belknap, Elston L., M. D., Globe-Union, Inc., Milwaukee, Wis.
 Berry, John W., M. D., University of Colorado Medical Center, Denver, Colo.
 Brown, Ernest W., M. D., American Medical Association, Chicago, Ill.
 Chambers, Frank A., Dept. of Smoke Inspection & Abatement, Chicago, Ill.
 Collins, William G., Johns-Manville Corp., Waukegan, Ill.
 Cook, Warren A., Zurich General Accident & Liability Insurance Co., Ltd., Chicago,
 Ill.
 Corwin, Dr. Alsoph H., Johns Hopkins University, Baltimore, Md.
 Daubenspeck, G. Walker, Illinois State Dept. of Labor, Chicago, Ill.
 Dill, Hugh L., M. D., Federal-Mogul Corp., Detroit, Mich.
 Dyktor, Dr. H. G., Cleveland Division of Air Pollution Control, Cleveland, Ohio
 Eagle, Harry, M. D., National Cancer Institute, Bethesda, Md.
 Fairhall, Dr. L. T., U. S. Public Health Service, Bethesda, Md.
 Fassett, David W., M. D., Eastman Kodak Co., Rochester, N. Y.
 Fredrick, Dr. William G., Detroit Dept. of Health, Detroit, Mich.
 Gillies, Fred M., Inland Steel Co., East Chicago, Ind.
 Goldstein, David H., M. D., The New York Times, New York, N. Y.
 Goldwater, Leonard J., M. D., Columbia University School of Public Health, New
 York, N. Y.
 Gray, Albert S., M. D., Connecticut State Dept. of Health, Hartford, Conn.
 Grossi, A., Illinois State Dept. of Labor, Chicago, Ill.
 Hamlin, L. E., M. D., American Brake Shoe Co., Chicago, Ill.
 Harrold, Dr. Gordon C., Industrial Health, Hygiene & Safety Service, Detroit,
 Mich.
 Holmblad, E. S., M. D., American Association of Industrial Physicians & Surgeons,
 Chicago, Ill.
 Houghton, Joseph A., Liberty Mutual Insurance Co., Chicago, Ill.
 Irish, Dr. Don D., Dow Chemical Co., Midland, Mich.
 Johnstone, Rutherford T., M. D., Los Angeles, Cal.
 Knopf, E. J., M. D., Illinois State Dept. of Public Health, Chicago, Ill.
 Kuechle, B. E., Employers Mutual Liability Insurance Co. of Wisconsin, Wausau,
 Wis.
 Kumler, Mrs. Kathleen, General Motors Corp., Detroit, Mich.
 Lange, Paul, Employers Mutual Liability Insurance Co. of Wisconsin, Milwaukee,
 Wis.
 Lanza, Anthony J., M. D., Metropolitan Life Insurance Co., New York, N. Y.
 Mayers, May R., M. D., New York State Dept. of Labor, New York, N. Y.
 McCabe, Dr. Louis C., Los Angeles County Air Pollution Control District, Los
 Angeles, Cal.



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Meek, Stuart F., M. D., Wayne University School of Public Health, Detroit, Mich.
Meiter, Dr. Edward G., Employers Mutual Liability Insurance Co. of Wisconsin,
Milwaukee, Wis.
Morse, Kenneth M., Illinois State Dept. of Public Health, Chicago, Ill.
Olson, Dr. C. T., Liberty Mutual Insurance Co., Chicago, Ill.
Peterson, Carl M., M. D., American Medical Association, Chicago, Ill.
Radner, S., Dept. of Smoke Inspection & Abatement, Chicago, Ill.
Rink, Rudolph, Illinois State Dept. of Labor, Chicago, Ill.
Sander, O. A., M. D., Milwaukee, Wis.
Sappington, C. O., M. D., Chicago, Ill.
Setterlind, Alfred N., Illinois State Dept. of Public Health, Chicago, Ill.
Silson, John E., M. D., New York State Dept. of Labor, New York, N. Y.
Singh, A. D., Singh Co., Chicago, Ill.
Sullivan, D. A., Commonwealth Edison Co., Chicago, Ill.
Sutherland, R. B., M. D., Ontario Dept. of Health, Toronto, Ont.
Tabershaw, Irving R., M. D., Liberty Mutual Insurance Co., New York, N. Y.
Tienson, Arvid, Illinois State Dept. of Labor, Chicago, Ill.
VanAtta, Dr. Floyd A., National Safety Council, Chicago, Ill.
Weber, H. J., American Brake Shoe Co., Chicago, Ill.
Williams, Dr. Charles R., Liberty Mutual Insurance Co., Boston, Mass.
Witheridge, William N., General Motors Corp., Detroit, Mich.



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ST. JOSEPH LEAD COMPANY

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BONNE TERRE, MISSOURI
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November 26, 1948

Mr. F. E. Wormser, Vice President
St. Joseph Lead Company
New York, New York

Dear Mr. Wormser:

Since I thought you might like to have a report of our representation at the Lead Hygiene Conference of the Lead Industries Association in Chicago on November 15th and 16th, we enclose a copy of H. I. Miller's resume of the main points brought out.

Yours very truly,

General Manager.

BFM/H

Enclosure

COPY



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Bonne Terre, Missouri
November 18, 1948

Memo to Mr. W. C. Bochart:

Dr. Roebber, Dr. Senn, and I attended the Lead Hygiene Conference of the Lead Industries Association at Chicago, Nov. 15 and 16. The meeting, primarily medical in nature, brought together medical and engineering people of considerable authority and experience in dealing with lead and other problems associated with lead production and fabrication. Following are pertinent points brought out:

1. Solubility and particle size in relation to toxicity were discussed in terms of persons breathing lead chromate dust, which in one group of people appeared to be innocuous, in another to have adversely influenced red blood cell formation. Particle size and individual susceptibility seemed to be the variables that make comparison of groups difficult. During discussion, Weber of American Brake Shoe Co. said their experience with lead sulfide was good - it had caused their personnel no injury.

2. Treatment of lead poisoning is varied but tends to the relieving of pain, then symptoms, and immobilizing the lead in the bones. Calcium gluconate intravenously (such as Dr. Senn uses) was much favored as it functions in all the aspects mentioned. Deleading by creating an acid condition in the system so lead is released from storage and excreted was looked upon as too dangerous for general use and of questionable value anyway.

3. Urine lead determinations as a continual check on workers was favorably regarded by a majority, with several dissenters. Many on both sides favored following a suspect with more or less complete blood examination. Lead poisoning (or intoxication) was defined as a state of lead absorption producing symptoms of illness; simple lead absorption may occur without illness. Claim was made that urinary lead figures varied widely in different occupation; that, although industrial practice is to consider excretion of over 300 micrograms per liter of urine as evidence of dangerous exposure, the effect of solubility of compound and particle size and individual susceptibility are such that persons have worked for years with regular excretion of 600 to 700 micrograms per liter without symptoms, while others have been ill with 150 to 200 micrograms.

4. New York State Labor Dept.'s proposed code calls for rigid control of lead workers; physical examinations every month or two months, urinary lead values to be held to below 100 micrograms per liter.

5. Industrial management represented by Mr. Luther Buck, Manager Federal Smelter at Alton, and by Mr. F. M. Gillies, Manager of an Inland Steel Co. plant at East Chicago pointed out present trend in management concern with clean hazard-free working places and the importance of these aspects in improving employer-employee relationship. Mr. Buck stated flatly that they have no lead cases at Alton since their complete job on clean-up, ventilation, and enforced respirator wearing by foremen and men wherever there is a suspicion of uncontrolled dust.



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6. BAL, the compound developed during the war for combatting arsenical gas poisoning was discussed in relation to treatment of lead poisoning, being considered not so good because of disagreeable odor, poor toleration by patient, and the fact that although it increases rate of lead excretion the symptoms still persist. Work is being done on a dithizone derivative (dithizone is a laboratory reagent we use for extracting lead in analyses) that has been successful in mice but not available in quantities to try on humans. Tolerance of the drug by humans is excellent.

7. General air pollution control discussion led off with a paper on the Los Angeles problem. Trend is to persuade industry to work out its problems with state help; however, ultimately certain standards must be met in discharging polluting material into the atmosphere. The Donora, Penna., situation was marked by a large bulletin board filled with newspaper clippings. Dr. Lanza, of Metropolitan Life Insurance Co., said the trend in people's thinking is to demand clean air to breathe in the same way that potable drinking water is demanded.

8. Silicosis has been treated with aluminum dust and aluminum oxide dust by inhalation for some years now with no apparently conclusive results. The psychological effect is usually good.

/s/ H. I. Miller, Jr.

H. I. Miller Jr.
Ind. Hyg. Engr.

