



Lead Industries Association, Inc.

252 Madison Avenue • New York, N. Y. 10017 • Telephone: (212) 679-6055

October 4, 1972

SUBJECT: Six-Month Staff
Activity Report

TO THE OFFICIAL MEMBERS OF THE
LEAD INDUSTRIES ASSOCIATION, INC.

The attached report is the first of a series, and is intended to keep our members informed of staff activities in major program areas. Because it is the first, it is behind schedule. Future reports of this series will be issued in January and July of each year.

I would appreciate your comments and suggestions for improvement.

Sincerely,

Jerome F. Smith
Secretary & Manager

JFS:lm
Attachment

**Lead Industries Association, Inc.**

288 Madison Avenue • New York, N. Y. 10017 • Telephone: (212) 679-6000

REPORT OF LIA STAFF ACTIVITIES**January 1 - June 30, 1972**

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REPORT OF STAFF ACTIVITIES
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SUBJECT 1 : BUILDING

I. WORK COMPLETED

1. Sheet Lead Plenum Barriers - Eight-page booklet prepared on installation and use of 1 pound lead to block over-the-ceiling sound in hung ceiling installations where partitioning is not carried through the ceiling to the slab above. Distributed 1,500 copies since the first of the year.
2. Acoustic Specialties Index - Revised "Directory of Acoustic Specialties," 26-page booklet listing manufacturers of lead-bearing acoustic materials. Distribution - 2,500 copies.
3. Lead Wool for Calking - Revised data for memo on lead wool for calking.
4. Consultations - A) Emery Roth, Architect, regarding use of lead shims for TV mast on top World Trade Center, New York City.
 B) Architect for Astor Hotel, Times Square, and Lincoln Bank, New York City, regarding lead asbestos anti-vibration pads.
 C) Federal Reserve Bank, Cincinnati -- reflecting pool. Lead membrane in place.
 D) Collaborated with Owens Corning on display of various sound barrier applications, including lead plenum barriers (in conjunction with glass fiber materials).
 E) Fred Allardt, Architect, regarding soundproofing of Seyville, L.I., Junior High School. Details given on audio-visual room and plenum applications.
 F) Sidney Rolfe, Southampton, L.I., regarding through-floor noise problem in new apartment building.
 G) Visit to Host of Houston Hotel, Houston, Texas Airport for conference with architect on installation of sheet lead plenum barriers.

II. WORK IN PROGRESS

1. Lead-Asbestos Anti-Vibration Pads - Collected and evaluated data for leaflet on use and specification of lead-asbestos anti-vibration pads.
2. Ways to Reduce Press Vibration - Revised data for leaflet on "Ways to Reduce Press Vibration" using lead-asbestos anti-vibration pads.
3. Sheet Lead Sound Barriers - Booklet being prepared for publication illustrating comparative assemblies of partitioning assemblies incorporating sheet lead sound barriers. Transmission curves for each assembly will be shown.

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II. WORK IN PROGRESS (Building)

4. Consultations - A) Manhattan College, New York City, regarding soundproofing for new classrooms.
 B) Westinghouse engineer regarding vibration in jet engine power generator. In design stage.
 C) Federal Reserve Building, Washington, D.C., reflecting pool. In construction stage. Details and specs provided.
 D) Technical Engineer with U.S. Plywood Corporation regarding plywood panel/lead laminate for sound attenuation.
 E) New York World Trade Center -- sheet lead waterproofing and flashing. Construction underway.
 F) University of Massachusetts -- small reflecting pool. 6 pound lead.
 G) Department of Transportation, Pueblo, Colorado - facility using pads for high speed mass transportation tests.
 H) Frank Grad, Architect, Newark Airport -- plenum barriers for offices.
 I) Gruen Associates, State Office Complex, Baltimore -- construction of elevated reflecting pool. 6 pound lead.
 J) Marcel Breuer, Boston High School -- membrane waterproofing under entrance plaza.
5. Lead Laminate Shingle - Collaboration with ILZRO in development, testing and evaluation of a lead laminate shingle with asphalt felt substrate for roofing purposes. Process of elimination shows about six individual types to be eligible for final selection for production in quantity. Choice to be made after final series of tests now in progress. Projected costs to be evaluated with building contractors.
6. Working Limits of Pressure for Storm Drain Calked Joints - Collaboration with ILZRO on research looking toward determination of maximum working limits for pressure in storm drains utilizing lead and oakum calked joints in high rise buildings. Data already assembled will be further evaluated, and a leaflet summarizing results will be prepared.
7. Roll Bonded Lead Clad Steel Sheet - Discussions underway relative to possible production of roll bonded lead clad sheet steel. Preliminary phone contact with two major architectural firms indicates immediate acceptance for jobs in design stage if such material can be produced in the U.S. at a cost equal to, or less than, lead coated copper.

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III. WORK PLANNED (Building)

1. Urban Design Council, Water Purification Plant, Brooklyn -- membrane waterproofing. Plan to use lead if budget permits.
2. Evans & Delehanty, Bronx High School -- lead asbestos anti-vibration pads. School straddles railroad - preliminary design stage.
3. Gruen Associates, Tanite Corporation, Albany, New York -- soundproofing. In planning stage.
4. David Todd, Architect -- lead for soundproofing. Irwin School, Philadelphia.
5. Abcon Industries, New York City, investigating lead for soundproofing of new TV studios for Channel 13.
6. Greenpoint Medical Center -- lead roofing and flashing.
7. Walter Reed Hospital, Washington, D.C. -- waterproofing. Approximately 35,000 sq. ft. of 6 pound lead planned.
8. Welton Becket, Richmond, Virginia -- small reflecting pool, 6 pound lead.
9. Paul Mellon Building, Yale University -- lead roofing. Possible job for lead clad steel.
10. Detroit Synagogue, Yamasaki, Architect -- lead roofing. 20,000 sq. ft. roof, possible application for lead clad steel.
11. Forest National Park, San Antonio, Texas -- New bank building, plenum barriers. Architect, Charles Luckman.
12. Bellevue Hospital, New York City -- leaded vinyl sound barrier curtain in operating areas.

SUBJECT 2 : BATTERIES

I. WORK COMPLETED

1. LIA booth display at biennial Virginia Agricultural Materials Handling Exposition, featuring the new lawn and garden and riding electric mowing devices. Manned booth for three days; attendance of 19,000.
2. First conference with key people at Trans World Airlines and Eaton Corporation to explore possibilities of designing and developing electric vehicles to be used in ground support at airports. LIA acted as liaison and made all arrangements.
3. Participation in committee to establish safety standard (ANSI-Z130) for golf cars, sponsored by American Golf Car Association.

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1. WORK COMPLETED (Batteries)

4. Speech prepared and given before staff of Arkansas Power & Light Company, subject: "Lift Profits Electrically." Also, collected data for stories on battery powered lift basket and automated golf caddy.
5. Collected information and prepared draft of by-line article for publication in ELECTRICAL WORLD magazine (appeared in March 1 issue) on subject of carbon monoxide hazard in enclosed buildings due to internal combustion fork lift trucks. Story included cost of controlling, and implications for electricians to solve the problem.
6. Collected and evaluated information; re-designed and revised former bulletin, "Industrial Trucks, What Do They Cost To Own To Operate and Maintain?." This was combined with another folder, and the new booklet is called "Lift Profits Electrically." 12,000 copies printed in late April.
7. Attended Electrochemical Society Conference, March 7-8, 1972; updated state-of-the-art information on battery sources.
8. Attended conference and manned booth featuring electric personnel carriers at American Public Power Association, Engineering and Operations workshop, March 13-16, 1972.
9. Attended conference and manned booth featuring automated golf caddy at Edison Institute Marketing Conference, March 20-22, 1972.
10. Attended Material Handling Institute Exposition. Prepared by-line story on same for publication in ELECTRIC VEHICLE NEWS (appeared in May, 1972 issue).
11. Produced two issues of the BATTERY BOOSTER NEWSLETTER (2,500 circulation).
12. Paper presented before staff of Louisiana Power & Light Company, subject: "Lift Profits Electrically." (This company plans to hold customer seminar later.)
13. Visit to Mercury Division, Pettibone - Mulliken, Chicago, to see prototype of first 6000 lb. capacity electric truck with pneumatic tires to be produced in U.S. - scheduled for commercial availability in October, 1972.
14. Attended TRANSPO 72, June 1, 1972, the first international exposition on transportation sponsored by the Department of Transportation, U.S. Government. Battery vehicles were well represented, and the Electric Vehicle Council held special session concurrently at which announcement was made awarding contract for 100 electric mini-vans to Batronic Corporation.
15. Paper presented on electric truck economics to staffs of Duquesne Light Company (Pittsburgh), Commonwealth Edison Company (Chicago) and Interstate Power Company (Dubuque).

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II. WORK IN PROGRESS (Batteries)

1. Preparation and arranging of programs for five electric in-plant truck seminars sponsored by three utilities for their customers, to be conducted during September and October. (LIA arranges all program details for these seminars, gives the opening paper and chairs the balance of the session. Equipment is demonstrated.)
2. Work with publicity agency on at least nine feature stories dealing with applications of battery power. These are in various stages of preparation and completion and will be released to the appropriate media in due time.

III. WORK PLANNED

1. As soon as Eaton Corporation has cleared, arrange for airport tractor development proposal to be presented to industrial battery manufacturers and electric energy groups for possible support and cooperative effort.
2. Discussions with four utilities for specific scheduling of electric truck seminars for late this year or early next.
3. Presentation of "Lift Profits Electrically" story to winter conference, American Public Power executive group, November 1, 1972.
4. Participation in electric vehicle sessions of Canadian Material Handling Exposition, Vancouver 1, B.C., November 14-16, 1972. Program arranged by Cominco and BC Hydro Commission.
5. Arrange electric truck seminar for Ontario Municipal Electric Association, March, 1973.
6. Plan, arrange, and present program on electric vehicles for winter meetings, Society of Automotive Engineering, Detroit, January 8-12, 1973.

SUBJECT 3 : CABLE SHEATHINGI. WORK COMPLETED

1. Story of COAX 22, lead sheathed cable, which was completed last year, was released to eight publications for possible use. COAX 22 is the new communications network cable crossing the U.S. and being installed by AT&T and its affiliates. The lead sheath is 7/64-inch thick, weighing 4,688 lbs. per 1000 feet.
2. Story of novel vibratory plowing technique for burying lead cable completed and released to media. This technique involves use of a vibratory plow mounted on a railroad flat car and operated along the railroad right-of-way, thus allowing much faster laying of cable, without some of the normal obstructions encountered along private right-of-way.

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II. WORK IN PROGRESS (Cable Sheathing)

1. Preparing special treatment of vibratory plow story for exclusive offering.

III. WORK PLANNED

1. Continue surveillance and contact with utility people to locate applications for possible publicity.

SUBJECT 4 : NOISE CONTROL

I. WORK COMPLETED

1. Conference - Organized and chaired half-day session on "Lead for Control of Transportation Noise," before the Society of Automotive Engineers, Annual Congress, Detroit, Michigan, January, 1972.
2. Exhibition - Continuous slide show and distribution of samples and literature on lead for industrial noise control, American Metal Stamping Association, Annual Technical Session, Toronto, Canada, April, 1972, 600 registrants.
3. Seminar - Provided noise control literature and samples for the State University of Pennsylvania for their Noise Control Seminar held annually in University Park, Pa.

II. WORK IN PROGRESS

1. Plastic Scrap Grinders - Supplied lead/foam material for testing and evaluation to the IMS Company, Cleveland. Coordinating the results with work done by Cominco Ltd. on other grinders for possible story.
2. Automatic Screw Machines - Supplied lead/foam laminate for evaluation and testing to the Rego Co., Div. of Golconda Corp., Chicago. Have also supplied samples and literature to the National Screw Machine Products Association. Awaiting results.
3. Heavy Trucks - Visited engineering facilities and conferred with technical people at the Ford Motor Co., Detroit. Supplied samples for testing and evaluation. Awaiting results. Also supplied technical information and assistance to the Cummins Engine Co., Columbus, Indiana, major manufacturers of diesel engines. Leaded materials are being considered.
4. Outboard Motors, Luxury Yachts - Gathering data from the Soundcoat Company on the use of their lead/foam laminate in outboard motor housings. Also gathering data on the use of the same material in luxury yachts.
5. High Speed Marine Craft - Data is gathered, story is in writing stage on the Golden Gate Ferries turbine-powered water jet boats slated for operation in late summer, 1973. 2 pound sheet lead specified for engine room noise treatment.

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II. WORK IN PROGRESS (Noise Control)

6. Executive Jets - Data is gathered, story is in writing stage on the Grumman Gulfstream II executive jet as well as the Grumman Tracked Air Cushion Vehicle. Leaded vinyl used for cabin and cockpit noise insulation.

III. WORK PLANNED

1. Household Appliances - Have been in contact periodically with the Association of Home Appliance Manufacturers (AHAM). They are in the process of developing noise standards. When these standards are published, LIA will initiate an aggressive campaign aimed at the appliance manufacturers themselves.

SUBJECT 5 : RADIATION SHIELDING

I. WORK COMPLETED

1. Collected information for press releases and article for LEAD Magazine on lead for nuclear shielding.

II. WORK IN PROGRESS

1. Nuclear Powered Marine Vessels - Presently collecting data on the use of lead shielding in new U.S. Government vessels. In contact with Babcock & Wilcox, major contractor for nuclear reactors.

III. WORK PLANNED

1. Handbook - A handbook on the uses of lead for nuclear, X-ray and gamma ray shielding is at the writing stage.
2. Non-Destructive Testing - Contacts made with the American Society for Non-Destructive Testing. Plan to develop editorial material covering the use of lead in this growing area.

SUBJECT 6 : CHEMICAL CONSTRUCTION

I. WORK COMPLETED

1. Handbook - LIA rewrote the chapter on lead welding, as featured in the new edition of the Welding Handbook, published by the American Welding Society, Spring, 1972. Reprints are being prepared.

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II. WORK IN PROGRESS (Chemical Construction)

1. Precipitators - Currently gathering background data on a number of applications of lead as a lining material for electrostatic and acid mist precipitators. Also in SO₂ control and sulfuric acid production.

III. WORK PLANNED

1. Lead Clad Steel - Plan to investigate potential market for roll bonded lead clad steel in the chemical industry.

SUBJECT 7 : PAINTS

I. WORK COMPLETED

1. Continued distribution of 24-page booklet on red lead paints, "Red Lead Based Paint Systems."
2. Prepared and presented testimony before the Chicago City Council regarding lead usage in interior paints, January 27, 1972.
3. Visited National Paint & Coatings Association regarding FDA proposed regulations on interior paints.

II. WORK IN PROGRESS

1. Chrome Yellow - Gathering information on the increased usage of chrome yellow highway marking paints. Includes other safety areas such as markings in industrial areas, plants, etc.

III. WORK PLANNED

1. Handbook - Preparation of handbook on leaded pigments in anticorrosive paints.

SUBJECT 8 : SOLDERS

I. WORK COMPLETED

1. Sponsored half-day workshop, and served on Paper Selection Committee for Soldering Conference held in conjunction with American Welding Society Annual Meeting, Detroit, Michigan, April 11-13, 1972.

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II. WORK IN PROGRESS (Solders)

1. Handbook - LIA working with the American Welding Society on revision of the Soldering Manual. LIA responsible for two chapters.

III. WORK PLANNED

1. Planning session on soldering problems for 1973 AMS Annual Meeting - Paper Selection underway now.

SUBJECT 9 : CERAMICS

I. WORK COMPLETED

1. Discussions with staffs of U.S. Senator and Representative sponsoring Federal legislation aimed at controlling manufacture and sale of lead glazed dinnerware when shipped interstate or imported.
2. Discussions with Japan Pottery Inspection Association regarding control of lead release from glazed Japanese pottery.
3. Visited with Porcelain Enamel Institute regarding FDA testing and regulations with respect to porcelain enameled cookware. Thus far, FDA has only seized a few foreign-made shipments showing high cadmium release.
4. Continued distribution of "Facts About Lead Glazes for Art Potters & Hobbyists." Approximately 10,000 copies disseminated.

II. WORK IN PROGRESS

1. Revising "Facts" book for hobbyists for second reprinting.

III. WORK PLANNED

1. Continued contacts with Food & Drug Administration and the U.S. Potters Association to monitor situation with respect to lead release from dinnerware.
2. Work with hobby groups such as National Ceramic Manufacturers Association and National Ceramic Association to continue educational efforts to help avoid potential lead poisoning problems from poorly glazed art and hobbyware.

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SUBJECT 10 : AMMUNITION

I. WORK COMPLETED

1. Held planning and strategy meeting with several member company representatives on developing problem concerning use of lead shot for waterfowling. Discussed National Wildlife Federation petition to Secretary of the Interior to have him ban further use of lead shot after 1973.

II. WORK IN PROGRESS

1. Schedule attendance at meeting called by Secretary Reed, Assistant for Fish and Wildlife and Parks, to discuss subject. Meeting to be attended by environmentalists, State conservationists, manufacturers of shot, trade groups, and government officials.

III. WORK PROGRAM

1. Report on above meeting to committee members, with recommendations for future action as determined from meeting results.

SUBJECT 11 : MISCELLANEOUS

I. WORK COMPLETED

1. Film Distribution - On February 14, 1972, a detailed summary of General Distribution and Television showings of the Lead Matrix was prepared and distributed to the members of LIA.

Due to a policy decision by the Federal Government regarding Lead in Gasoline (TEL), a portion of our film, The Lead Matrix, was deemed unsatisfactory for continued distribution by the Bureau of Mines. After close contact with Dr. A. Nicholas Vardac, Chief of the Audio-Visual Program of the Bureau of Mines, regarding this problem, a solution was reached. An analysis was prepared comparing the cost of a new sound track versus eliminating a portion of the film dealing with Lead in Gasoline (TEL). It was acceptable by the Bureau of Mines to cut a two minute segment from The Lead Matrix. Now, the film runs 24 minutes instead of the original 26 minutes and it is still a comprehensive, finished piece of work.

2. Statistical Reports - Data was compiled for the preparation and distribution of four monthly statistical reports. These include: Form A - Domestic Sales of Pig Lead; Form B - Domestic Shipments of Lead Pigments; Form E - Domestic Mine Production of Lead; and the Imports Report which covers Imports of Lead Products for Consumption.

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SUBJECT 12 : ENVIRONMENTAL HEALTH ACTIVITIES

The major activities of the LIA Environmental Health Group for the period January 1, 1972, through June 30, 1972, consisted of the following:

1. Department of Labor Occupational Safety and Health Administration
 - a. Target Health Hazard Program:
Meetings held by the Department of Labor on January 26 and February 2 to describe the Target Health Hazards Program (THHP) were attended by Environmental Health personnel. Lead, along with carbon monoxide, asbestos, silica, and cotton dust are included in the THHP and have high priority in the DOL inspection schedules.
 - b. DOL personnel participated in the meeting of the LIA Environmental Health Committee during the LIA Annual Meeting in Montreal, and provided information on DOL's THHP as it pertained to lead.
 - c. Presented paper at LIA Annual Meeting on "Implications of the Occupational Safety and Health Act on the Sale and Use of Lead."
2. Criteria Document for Occupational Exposures to Lead:
 - a. LIA prepared a statement to the National Institute for Occupational Safety and Health (NIOSH) in response to their notice in the Federal Register for information on lead and lead compounds.
3. Lead in Gasoline
 - a. Environmental Health personnel arranged for Dr. M. E. Williams to present testimony before the Environmental Protection Agency's Hearing on the proposed lead-in-gasoline regulations at Washington, D.C.
 - b. Environmental Health personnel participated in the question and answer portion of Mr. P. E. Robinson's testimony before the EPA Hearing in Washington on proposed lead-in-gasoline regulations.
 - c. All three public hearings on the proposed Federal regulations for lead-in-gasoline, held at Washington, Dallas, and Los Angeles, were covered.
 - d. A statement was presented before the New York State Department of Environmental Conservation on "A Proposed Rule on Lead in Gasoline for the New York Metropolitan Area" (New Part 206, Environmental Conservation Law).
 - e. Participated in Environmental Seminar of LIA Annual Meeting.
 - f. Covered International Conference on Automotive Pollution, Toronto, June 26, 1972 through June 28, 1972.

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(Environmental Health Activities)

4. Lead in Paint
 - a. Presented testimony along with Mr. P. E. Robinson and Mr. J. F. Smith on the Kennedy Bill to reduce lead in paint.
 - b. Presented papers at the Midwest Regional Meeting on Childhood Lead Poisoning and the Eastern Regional Meeting on Childhood Lead Poisoning on the subject of the Lead Industry's Role in Preventing Pediatric Lead Poisoning. These meetings were sponsored by the American Academy of Pediatrics and the Bureau of Community Environmental Management of the Dept. of HEW.
 - c. Met with representative from New York State Attorney General's Office regarding solubilities of various lead compounds.
5. Emission Standards for Secondary Lead Industry
 - a. Attended meeting at the invitation of EPA officials from Standards Development and Implementation for the purpose of discussing proposed emission standards for the secondary lead industry.
6. Survey of Atmosphere Adjacent to Ceramic Kilns
 - a. Conducted sampling tests as part of preliminary survey in cooperation with the State of Delaware Department of Public Instruction to determine whether art instruction personnel and students may be exposed to hazardous concentrations of lead.

SUBJECT 13 : MEETINGSMEETINGS ATTENDED (1972)JANUARY

1. Society of Automotive Engineers (SAE) Annual Meeting, Detroit, Michigan, January 10-14, 1972.
2. National Plant, Engineering & Maintenance Show, Philadelphia, Pa., January 22-26, 1972.

FEBRUARY

1. American Academy of Occupational Medicine, Pittsburgh, Pennsylvania, February 9-11, 1972.
2. American Institute of Mining, Metallurgical, & Petroleum Engineers (AIME), San Francisco, California, February 28, 29, 1972.

MARCH

1. Annual Meeting of Society of Toxicology, Williamsburg, Va., March 7, 8, 1972.
2. Building Research Institute Conference, Washington, D.C., March 15, 1972.

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MEETINGS ATTENDED (1972)

APRIL

1. Lead Industries Association/Zinc Institute Annual Meeting, Montreal, Canada, April 5-7, 1972.
2. American Welding Society (AWS), Detroit, Michigan, April 10-14, 1972.
3. Acoustical Society Annual Meeting, Buffalo, New York, April 17-20, 1972.
4. Architects Annual Meeting, Atlanta, Georgia, April 25-28, 1972.

MAY

1. Consortium on Endemic Lead Poisoning, Chicago, May 3-4, 1972.
2. American Industrial Hygiene Association Annual Meeting, San Francisco, California, May 15-19, 1972.

JUNE

1. Battery Council International Annual Conference, Denver, Colorado, June 5-8, 1972.
2. Annual Trace Metals Conference, Columbia, Missouri, June 12-15, 1972.
3. Construction Specification Institute Annual Convention in Minneapolis, June 19-22, 1972.
4. American Society for Testing & Materials (ASTM), Los Angeles, California, June 26-28, 1972.

MEETINGS PLANNED (1972 - 1973)

JANUARY

1. Society of Automotive Engineers, Inc. (SAE), Annual Meeting, Detroit, Michigan, Cobo Hall, January, 1973.

FEBRUARY

1. American Institute of Mining, Metallurgical, & Petroleum Engineers (AIME), Chicago, February 18-22, 1973.

MARCH

1. National Plant, Engineering & Maintenance Show, Chicago, March 13-15, 1973.
2. American Hot Dip Galvanizers Association, Houston, March 14-17, 1973.
3. National Convention of National Automotive Radiator Service Association (NARSA), Palm Springs, California, March 24-26, 1973.

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MEETINGS PLANNED (1972 - 1973)APRIL

1. American Welding Society Annual Meeting, Chicago, Palmer House, April 2-6, 1973.
2. Electric Energy Association/Electric Edison Institute, Dallas, Texas, April 2-4, 1973.
3. Lead Industries Association/Zinc Institute Annual Meeting, Detroit, Michigan, Sheraton Cadillac, April 4-6, 1973.
4. Design Engineering Show, Philadelphia, Pa., April 9-12, 1973.
5. Independent Battery Manufacturers Association, San Francisco, California, April 25-27, 1973.
6. American Ceramic Society Annual Meeting, Cincinnati, Ohio, (Convention Center), April 28-May 3, 1973.
7. Battery Council International, Annual Meeting, San Francisco, California, April 30-May 3, 1973.

MAY

1. Steel Structures Painting Council, Pittsburgh, Pa., May, 1973.
2. American Mining Congress Annual Meeting, Pittsburgh, Pa., May 6-9, 1973.
3. American Institute of Architects, San Francisco, California, May 6-10, 1973.
4. American Public Power Association Annual Convention, New Orleans, May 14-16, 1973.
5. American Conference of Governmental Industrial Hygienists, Boston, May 21-25, 1973.
6. American Industrial Hygiene Association, Boston, May 21-25, 1973.

JUNE

1. National Association of Plumbing-Heating-Cooling Contractors, Houston, June, 1973.
2. American Electroplaters' Society, Minneapolis, June 17-21, 1973.
3. American Society for Testing & Materials (ASTM), Annual Meeting, Philadelphia, Pennsylvania, June 24-29, 1973.
4. Air Pollution Control Association, Chicago, Palmer House, June 25-29, 1973.
5. The Construction Specifications Institute, Washington, D.C., June 25-27, 1973.

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MEETINGS PLANNED (1972 - 1973)**AUGUST**

1. United Association Apprentice Contest, National finals at Purdue University, August 14-18, 1973.
2. American Chemical Society Annual Meeting, Chicago, August 26-31, 1973.

OCTOBER

1. The National Paint & Coatings Association, Palmer House, Chicago, October 2-4, 1972.
2. International Symposium on Environmental Health Aspects of Lead, Amsterdam, October 2-6, 1972.
3. Electrochemical Society, Inc., Miami Beach, Florida, October 8-13, 1972.
4. Water Pollution Control Federation, Atlanta, October 8-13, 1972.
5. American Society for Metals, Convention Center, Cleveland, Ohio, October 16-19, 1972.
6. Society of Die Casting Engineers, Inc., Chicago, October 16-19, 1972.
7. New York State Association of Architects, Rochester, N.Y., October 19-21, 1972.
8. American Society of Sanitary Engineers, October 23-26, 1972, Hot Springs, Arkansas.
9. Federation of Societies for Paint Technology, Annual Meeting, Atlantic City, New Jersey, October 24-28, 1972.
10. Material Handling Institute Convention, Scottsdale, Arizona, October 21-24, 1973.

NOVEMBER

1. American Petroleum Institute, Chicago, November 13-15, 1972.
2. American Society of Registered Architects, New Orleans, La., November 16-20, 1972.
3. Acoustical Society, Miami Beach, Florida, November 27-December 1, 1972.

DECEMBER

1. International Wire & Cable Symposium, Shelburne Hotel, Atlantic City, N.J., December 5-7, 1972.