

# EDWARD WOLFE SALTZBERG, ME

## PE, CPD, FPE, FASPE, FNAFE

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Updated November, 2015

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### REGISTERED MECHANICAL ENGINEER

#### DEDICATION | QUALITY | PERFORMANCE

Nationally recognized mechanical engineer with over 60 years of experience in plumbing, process piping, storm drainage, irrigation, heating, ventilation, air conditioning, fire protection and energy conversation. Experienced in product design and literature critique for plumbing and HVAC projects. Active member of numerous technical societies; participated in code-writing authority; provided instruction in plumbing and mechanical engineering and has designed and provided specifications for various plumbing and mechanical systems. Served as expert witness and consultant on over 543 cases for both plaintiffs and defendants.

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#### ACTIVE TITLES AND LICENSES

<i>State</i>	<i>Date Obtained</i>	<i>License Number</i>
Arizona	09/17/71	8105
California	07/19/62	12692
Colorado	03/21/70	9837-6
Illinois	08/01/73	62-31295
Nevada	06/11/71	3174
New Mexico	09/29/75	5997
Ohio	04/28/75	E39873
Pennsylvania	04/08/75	22037-E
Texas	10/03/73	35738

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#### OTHER TITLES AND LICENSES

- L.A City Journeyman Plumber 1958
- Fire Protection Engineer (#FF-559) – CA 1977
- P.I.P.E. Journeyman Plumber 1985
- Fellow – National Academy of Forensic Engineers 1984
- Life Member – International Association of Plumbing & Mechanical Officials 1992
- Certified in Plumbing Design (CPD) 1983  
Previously known as CIPE
- Certified Energy Manager (CEM) 1983
- Fellow – American Society of Plumbing Engineers 2008
- Life Member – American Society of Heating, Refrigeration & Air Conditioning Engineers 1997

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#### INACTIVE MECHANICAL ENGINEERING LICENSES

<i>State</i>	<i>Date Obtained</i>	<i>License Number</i>
Connecticut	07/25/75	9766
Florida	03/21/75	0021837
Georgia	2/15/74	9653
Indiana	01/29/75	15837
Iowa	02/28/75	7570
Kansas	01/16/75	6987
Massachusetts	09/30/75	28037HV
Michigan	02/27/75	22281
New Jersey	06/21/73	20540
Oklahoma	01/20/75	9901
Tennessee	04/07/75	010266
Washington	02/31/75	15145

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## EDUCATION & TRAINING

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- **JOURNEYMAN PLUMBER, 1951** – Served Apprenticeship Program
- **ASSOCIATE IN ARTS, 1953** – Los Angeles City College
- **BACHELOR OF SCIENCE, SPECIALIZED MECHANICAL ENGINEERING PROGRAM CALLED PLUMBING ENGINEERING, 1956** – California State University, Los Angeles

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## EMPLOYMENT HISTORY

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**EDWARD SALTZBERG & ASSOCIATES, FORENSIC MECHANICAL ENGINEERS & PREDECESSORS K&S ENGINEERING, AND KUSHNER & SALTZBERG, CONSULTING MECHANICAL ENGINEERS** 1967 – Present

**President**

Responsible for design of mechanical systems, specifications, client coordination, site observation and cost estimates; designed hospitals, restaurants, schools, churches, commercial, residential and industrial projects worldwide. Forensic expert in over 502 litigation cases.

**MICHAEL C. MAROKO, CONSULTING MECHANICAL ENGINEERS** 1961 – 1967

**Associate Engineer**

Responsible for operation and organization of office, client coordination and design of mechanical systems and specifications. Designed hospitals, high-rise offices, commercial, residential and industrial projects throughout the United States.

**WELTON BECKET & ASSOCIATES, ARCHITECTS & ENGINEERS** 1958 – 1961

**Project Engineer & Assistant Department Head**

Responsible for plumbing design of major projects, coordination of systems, and specifications. Designed multi-million dollar projects including selection of type of system, equipment and materials. Provided supervision and organization of plumbing department staff.

**GILBERT J. COMEAU, CONSULTING MECHANICAL ENGINEERS** 1955 – 1958

**Project Engineer**

Responsible for design and specification of plumbing, piping, heating, air conditioning, and fire protection systems for various types of projects including shopping centers, high-rise buildings, apartment buildings, commercial and industrial facilities. Performed design calculations, selection of materials and equipment, cost estimates and site observation.

**LOS ANGELES DEPARTMENT OF WATER & POWER** 1953 – 1955

**Electrical/Mechanical Draftsman (Part-time)**

Converted engineering sketches into working drafts; worked on power plants, substations, transformer building facilities; completed drawings reviewed by Checking Department.

**FEBCO, INC. MANUFACTURING & ENGINEERING CO.** 1953

**Draftsman/Designer (Part-time)**

Designed lawn sprinkler systems and backflow preventer components; drew assembly and fabrication drawings; performed research for comprehensive treatise on backflow prevention. Designed irrigation systems for many large projects such as golf courses, schools and other similar structures.

**SEABREEZE ENGINEERING COMPANY MANUFACTURING & PLUMBING CONTRACTOR** 1943 – 1953

**Draftsman/Designer (Part-time)**

Designed and installed plumbing systems for residential and small commercial buildings, components for fans and barbecues, selected materials and fabrication and finishing methods for parts.

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Edward Saltzberg grew up in construction, worked at most construction trades, but worked in his youth primarily as a Journeyman Plumber (apprenticeship served in Plumbers' Union 78).

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### **PROFESSIONAL MEMBERSHIPS**

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- Association of Energy Engineers (AEE); Full member (joined 1982) CEM (1983)
- Association for Facilities Engineering (AFE); (formerly American Institute of Plant Engineers (AIPE). Full Member (joined 1974).
- American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE). Full Member (joined 1970). Life Member (1997).
- American Society of Plumbing Engineers (ASPE). Charter Member and Co-founder. Past President of Los Angeles Chapter and National Society; Chairman, National Education Committee; Chairman, ASPE-ASHRAE Liaison; Vice President, Legislative, L.A. Chapter. Member Society Chapter Operations Committee and Structure and Governance Committee; and Legislative Committee (Started 1964), Fellow.
- California Society of Professional Engineers (CSPE). Member (joined 1984).
- California State Fire Marshal – Fire & Life Safety Advisory Board (started 2003).
- Forensic Expert Witness Association (FEWA). Formerly Forensic Consultants Association of Orange and LA Counties (joined 2001).
- International Association of Plumbing & Mechanical Officials (IAPMO). Secretary of So. Calif. Chapter for over 55 years; member or past member of Education; Plumbing Code, Spa & Pool Code, & Solar Code; Standards; Research; Green Code Sub-committee & numerous ad hoc committees. (Joined 1958.) Life Member.
- Los Angeles City Plumbing Technical Advisory Committee (LAC-PTAC). Member 1987.
- Los Angeles County Board of Examiners of Plumbers & Gas Fitters (3/92 to 2015).
- Mechanical Engineers Association of California (MEAC). President, Secretary and Board Member. (Joined 1971).
- National Academy of Forensic Engineers (NAFE). Fellow (joined 1984).
- National Society of Professional Engineers (NSPE). Member (joined 1984).
- Plumbing Engineer Magazine - Editorial Review Board (started 1981).
- Plumbing Engineer Magazine - Board of Review. ASPE Award for Excellence in Plumbing Design (1986 & 1988).
- Plumbing, Heating, Cooling Contractors of Greater Los Angeles (PHCC-GLAA). Honorary Member (since 1964).
- Society of Fire Protection Engineers (SFPE). Affiliate Member (joined 1977). Unified Plumbing & Piping Association of Long Beach. Honorary Member (since 1977)
- California Building Standards Commission – Plumbing – Mechanical Technical Advisory Committee (2013)

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### **MEMBERSHIPS – SOCIAL, RELIGIOUS, PHILANTHROPIC**

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- Brandeis-Bardin Institute  
Member, House of the Book; Prior Member, Board of Directors; Prior Member, Executive Committee; and Prior Chairman, Building and Grounds Committee.
- Jewish Federation Council, San Fernando Valley Region  
Past Member, Community Relations Committee, Past Member Board of Directors, Valley Business & Professions Committee, Real Estate & Construction Division, and United Jewish Fund. Also Past Chairman, Bernard Milken Jewish Community Campus Facilities Committee.
- Stephen S. Wise Temple  
Temple member.
- Jewish Community Centers Association- Los Angeles  
Past Member, Building Committee.

- The Executives Support Group for the Jewish Home For the Aging Member, Program/Public Affairs Committee and prior Board of Directors Member.

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## FORENSIC HISTORY

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- 47 years of experience in forensic mechanical engineering.
- 543 legal and insurance cases.
- 52% of cases for plaintiff (276 cases).
- 49% of cases for defendant (267 cases).
- Testified in court 31+ times.
- Deposed 138 times.
- Testified in arbitration, J.A.M.S. or settlement conferences 37+ times.
- Been on prevailing side 531 times.
- Been on losing side 12 times.
- 510 cases have settled prior to or during court proceedings.
- 24+ cases were dropped due to insufficient grounds to proceed.

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## AWARDS AND HONORS

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- IAPMO International 50 Years Certificate of Appreciation (2009).
- ASPE-LA Chapter-Lifetime Service (2008).
- ASPE National Society - First Class of College of Fellows (2008).
- IAPMO International Standards Council Service (2007).
- ASPE - National Society Donald. F Dickerson Founder Award (2006).
- IAPMO, International - George Kaufman Lifetime Achievement Award (September 2004).
- ASPE, Los Angeles Chapter - Certificate of Appreciation (November 2001).
- ASPE, National Society - Certificate of Appreciation (October 1998).
- ASPE Research Foundation - Certification of Appreciation (October 1998).
- AEE - Certificate of Appreciation (January 1997).
- ASPE, Los Angeles Chapter - Certificate of Merit - Legislative Committee (July 1996).
- ASPE, Los Angeles Chapter - Certificate of Appreciation (June 1996).
- IAPMO, Southern California Chapter - Plaque for Dedicated Service (April 1995).
- PHCC of Greater Los Angeles - Certificate of Appreciation (June 1994).
- ASPE, Los Angeles Chapter - Certificate of Appreciation (April 1993).
- ASPE, Los Angeles Chapter - Certificate of Merit (December 1992).
- ASPE, National Society, Washington, D.C. - First Ever George W. Runkle Jr. Award of Merit (1992).
- ASPE, Los Angeles Chapter - Award of Excellence (1992).
- ASPE, National Society, Washington, D.C. - Special Certificate of Appreciation (1992).
- ASPE, Los Angeles Chapter - Certificate of Merit (December 1991).
- ASPE, Los Angeles Chapter - Lifetime Achievement Award (1991).
- ASPE, National Society - Numerous Certificates of Appreciation.
- ASPE, Los Angeles Chapter - Numerous Certificates of Appreciation.
- ASPE, Los Angeles Chapter - Engineer-of-the-Year Award (1988).
- ASPE, Los Angeles Chapter - Award for 1988 Convention Participation (1988).
- IAPMO, Southern California Chapter - 25 year Special Service Award (1985).
- ASPE, National Society - 1<sup>st</sup> Honor Roll of ASPE Employers (1984).
- IAPMO Conference, Honolulu, Hawaii - Industry Man-of-the-Year Award (1983).
- Los Angeles Department of Water & Power - Energy Conservation Award (1970).
- Los Angeles City College - Familian Scholarship (1954).
- United Jewish Welfare Fund - Awards for Special Service (1978-1990).
- Los Angeles City Plumbing and Los Angeles Unified School Board - Numerous Oral Interview Boards.
- Who's Who in California.
- Who's Who in the West.
- National Register's Who's Who in Executives & Professionals.
- Marquis Who's Who in Science & Engineering.
- Who's Who Historical Society.
- Nationwide Register's Who's Who in Executives & Businesses.
- National Registry of Who's Who.

- Strathmore's Who's Who.
- International Who's Who of Entrepreneurs.
- Familian Pipe & Supply \$1,000 College Scholarship Recipient (1951)

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### BOOKS, ARTICLES, PAPERS PUBLISHED

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- Community Associations Institute – Greater Los Angeles Chapter – Focus Magazine  
"Getting Hot Water – How Much Do Long Delays Cost You?"
- Plumbing Engineer Magazine  
"Core Competencies for Plumbing Engineers – Thoughts on an Important Subject" (August 2002).
- NAFE Journal  
"Forensic Engineering Analysis of the Negative Effect of Hot Water Distribution System on Water Heater Operation" (June 2002).
- Plumbing Engineer Magazine  
Letter to the Editor regarding ASPE's Role with National Code Writing Agencies (June 2002).
- IAPMO, Official Magazine  
"The Effects of the Hot Water Distribution System on Water Heater Operation" (November / December 2001).
- Plumbing Engineers Magazine  
"How Distribution Systems Affect Water Heater Operation"- (September 2001).
- GO Hap, Book, 2 Chapters  
Guidelines on Health Aspects of Plumbing (GO Hap), (August 2001).
- IAPMO, Official Magazine  
Recurring Plumbing Defects – Photo Essay (May/June 2000).
- Plumbing Engineer Magazine  
25th Anniversary Essay – "What a Difference" (October 1998).
- Reeves Journal  
"Hot Water Systems Not Properly Installed Could Consume Significantly More Water " (September 1998).
- Plumbing Engineer Magazine  
"Are Ultra Low Flow Shower Heads Suitable for all Existing Applications?" (September 1998).
- Plumbing Engineer Magazine – Guest Forum  
"Code Driven Costs of Plumbing System Installations – Is There Really a Significant Difference?" (July 1998).
- Plumbing Engineer Magazine  
"Prompt Delivery of Hot Water at Fixtures" (September 1997).
- ASPE/AHRAE - Hot Water Design Manual, Chapter 10  
"Recirculating Domestic Hot Water Systems" (1997).
- NAFE Journal  
"The Danger of Unsubstantiated Assumptions: Indoor Air Quality" (June 1997).
- ASPE, National Convention Proceedings, Phoenix, AZ  
"The Effects of Hot Water Maintenance Systems on Hot Water Heater Sizing, Piping Systems, and Utility Costs" (March 1997).
- Plumbing Engineer Magazine  
"Electronic Data Acquisition Improves Hot Water Analysis" (September 1996).
- IAPMO - Code Comparison Update of 1996  
International Plumbing Code and Uniform Plumbing Code (September 1996).
- NAFE Journal  
"New Approaches for Analyzing Hot Water and Other Systems" (June 1996).
- Dawson Company Newsletter  
"Problems in Hot Water Circulation" (March/April 1996).
- IAPMO  
Code Comparison of International Plumbing Code and Uniform Plumbing Code (March 1996).
- ASPE Report  
"The Plumbing Engineer and Plumbing Noise" (January/February 1996).
- Plumbing Engineer Magazine  
Letter to the Editor on Plumbing Codes (November/December 1995).
- PM Engineer Magazine - Point/Counterpoint  
"Will Air Admittance Valves Do The Job?" (February/March 1995).
- ASPE  
Review of International Plumbing Code (August 1994).
- Plumbing Engineer Magazine  
"To Combine or Not to Combine: Combined Hydronic Systems and Their Pitfalls" (September 1993).

- ASPE  
Report on Air Admittance Valves (August 1993).
  - Los Angeles Times  
Letter (September 1992).
  - Plumbing Engineer Magazine, Guest Forum  
Research article (December 1991).
  - Plumbing Engineer Magazine  
Engineering article (April 1991).
  - IAPMO, Southern California Chapter  
Monthly Meeting Minutes (March 1960 through present).
  - United Jewish Fund, San Fernando Valley Real Estate & Construction Division, Newsletter Article  
"New Approaches Which Can Be Used in Construction Litigation Concerning Plumbing, Piping, HVAC, and Fire Protection" (November 1991).
  - IAPMO  
"Responses to the National Association of Home Builders March 1991 Publication Concerning the CABO Residential Plumbing Code" (September 1991).
  - IAPMO  
"Review of Plumbing Portion of the CABO One and Two Family Dwelling Code and Referenced Documents"  
(March 1990).
  - Plumbing Engineer Magazine, Guest Forum  
"Who's Watching the Chicken Coop?" (March 1990).
  - ASPE, 1990 Convention Technical Proceedings  
"Quality & Ethics in the Construction Industry".
  - NAFE Journal  
"Forensic Plumbing Engineer" (October 1989).
  - ASPE, 1988 Convention Technical Proceedings  
"Plumbing Engineer as a Forensic Engineer".
  - Indoor Comfort News  
"Contractor Pitfalls" (May 1987).
  - Reeves Journal Magazine  
"History of ASPE" (February 1987).
  - Plumbing Engineer Magazine  
"Engineers and Contractors Can Effect Change in Plumbing Codes" (May 1986) and "Domestic Engineering"  
(May 1986).
  - Uniform Plumbing Code  
Illustrated Training Manual - 1985 Edition (Pages 475-498).
  - Uniform Plumbing Code  
Interpretation Manual - 1985 Edition (Appendix A).
  - Plumbing Engineer Magazine  
"Plumbing Codes - ASPE's Role?" (January 1984).
  - Plumbing Engineer Magazine  
"The Role of ASPE With Regard to Codes" (June 1980).
  - Los Angeles Times  
"The Dangers of Performing Surgery in Doctors' Offices" (November 1979).
  - Contractor Magazine  
"Who is Best Able to Provide Competent Design Capability?" (March 1975).
  - Plumbing Engineer Magazine  
"The Value of Engineering" (September 1975).
  - Western Building Design  
"A Mechanical Engineer Can Save You and Your Client Money" (February 1973).
  - ASPE Data Book  
"Cold and Hot Water Pipe Sizing" (1971 through 1999).
  - Official (IAPMO Magazine)  
"Role of the Plumbing Engineer in Modern Construction" (March 1971).
  - Official (IAPMO Magazine)  
"Water Pipe Sizing" (October 1967).
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## **LECTURE AND TEACHING EXPERIENCE**

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- IAPMO – Plumbing Defects (July 16, 2013).
- IAPMO Orange County – Appendix A (June 14, 2012 and June 19, 2012).
- IAPMO – Water Calculations, San Diego, CA (May 9, 2012).
- Unified Plumbers & Pipefitters of Long Beach - Hot Water Talk (07/09/11).
- IAPMO Channel Islands - Hot Water Talk (04/26/11).
- IAPMO-LA - Hot Water Recirculation Talk (03/15/11).
- ASPE-LA - Hot Water Talk (06/03/09).
- IAPMO Orange County - Hot Water Recirculation Talk (05/12/09).
- PHCC-GLAA - Apprentice School - Water Pipe Sizing (January 27, 2004).
- IAPMO - International - Portland, OR - Water Pipe Sizing (September 30, 2003).
- LA City Plumbing Technical Advisory Committee – Air Admittance Valve Hearing (October 16, 2002).
- IAPMO, Southern California Chapter – “Backwater Valve Installation and Operation” (January 2002).
- NAFE Seminar, Washington D.C. - “The Analysis of the Operation of the Water Heater” (January 2002).
- ASPE LA Hot Water Seminar-“Everything You Wanted to Know About Hot Water but Were Afraid to Ask” (November 2001).
- LA City Building Safety- “Hot Water Talk” (September 2001).
- Affordable Housing Management Association, LA Seminar - “How to Keep Out of Hot Water” (May 2001).
- ASPE, Los Angeles Chapter – “Hot Water and How to Get Out Of It” (January 1999).
- Plumbing Inspectors Association of Michigan, Traverse City, MI – “IPC/UPC Engineering Cost Comparison Seminar” (October 1998).
- Construction Law Breakfast Group, Pomona, CA – “Recurring Plumbing Defects” (June 1998).
- ASPE 1997 Technical Symposium, Plumbing Engineers Inspection Workshop - "Are You Getting What You Specified?" (September 26 & 28, 1997).
- PHCC of Greater Los Angeles Area - "Recurring Plumbing Defects", Part 1 (June 1997).
- IAPMO, Orange Empire Chapter - "Recurring Plumbing Defects", Part 1 and 2 (May and June 1997).
- AFE, San Fernando Valley Chapter - "Forensic Engineer's Advice to Plant Engineers" (April 1997).
- IAPMO, Southern California Chapter - "Recurring Plumbing Installation Problems", Part 1 and 2 (March and April 1997).
- MEAC, Los Angeles Chapter Meeting - "The Effects of Hot Water Maintenance Systems on Hot Water Heater Sizing, Piping Systems, and Utility Costs" (March 1997).
- NAFE, Winter Meeting, Charlotte, NC - "Don't Assume - It Can Cost Your Client Considerable - An Approach to Solving Indoor Air Quality Cases" (January 1997).
- AEE, Southern California Chapter - "The Effects of Hot Water Maintenance Systems on Hot Water Heater Sizing, Piping Systems, and Utility Costs" (January 1997).
- ASPE, National Convention, Phoenix, AZ - Tape recording of presentation, "The Effects of Hot Water Maintenance Systems on Hot Water Heater Sizing, Piping Systems, and Utility Costs" (November 1996).
- AFE Western Region Convention, Anaheim, CA - "New Simplified Approaches for Trying to Keep Building Occupants Happy," (April 1996).
- NAFE Winter Meeting, Portland, Oregon - "New Approaches for Analyzing Hot Water Systems" (January 1996).
- UPPA of Long Beach - "Recurring Plumbing Defects" (June and July, 1995).
- PHCC-GLAA - Panel Discussion, "What Would You Like to Know?" (June 1995).
- ASPE 1993 Technical Symposium, Atlanta, Georgia - "To Combine or Not? - An In-Depth Review of the Design of, the Various Pitfalls With, and the Concerns About Standard and Combined Hydronic Heating Systems", repeated twice (October 1993).
- Raypak Technical Sales Staff - Hydronic Presentation (August 1993).
- NAFE, Pittsburgh, Pennsylvania, "Forensic Review of Hydronic and Combined Hydronic Systems" (July 1993).
- Southern California Gas Company, Technical Sales Representatives - Hydronic Presentation (May 1993).
- ASPE, Los Angeles Chapter - "To Combine or Not to Combine - An In-Depth Review of Standard and Combined Hydronic Heating Systems and Their Various Pitfalls" (April 1993).
- ASPE, Los Angeles Chapter - "Failures of Copper Piping" (March 1993).
- MEAC - Uniform Plumbing Code Update (February 1993).
- ASPE 1992 Convention, Washington, D.C. - Panel on Quality & Ethics in Engineering (November 1992).
- City of Los Angeles - Forensic Engineering Presentation (October 1992).
- ASPE, Los Angeles Chapter - Code Presentation (July 1991).
- ASPE, Los Angeles Chapter - "Are You Qualified to be a Forensic Engineer and the Hidden Pitfalls of This Endeavor" (August 1991).
- ASPE, Los Angeles Chapter - "Plumbing Code Interpretations" (July 1991).
- ASPE, Cincinnati Convention - "Quality & Ethics in the Construction Industry" - Panel Discussion (November 1991).

- IAPMO, Southern California Chapter - "The CABO Residential Plumbing Code" (June 1990).
  - IAPMO, Southern California Chapter - "Sovent" (January 1990).
  - Los Angeles City, Low Flow Water Closets (June 1989).
  - National Academy of Forensic Engineers Conference (NAFE), Atlanta, Georgia - "Forensic Plumbing Engineer" (January 1989).
  - Plumbing Piping Industry Council, Los Angeles Chapter - "Engineer/Contractor Relations" (November 1988).
  - Unified Plumbing & Piping Association of Long Beach (UPPA) - Monthly meeting - "ASPE and the Contractor" (November 1988).
  - American Society of Plumbing Engineers International Convention, Long Beach, California - "The Plumbing Engineer as a Forensic Engineer" (November 1988).
  - Association of Energy Engineers (AEE), Los Angeles Chapter Seminar - HVAC Problems (October 1987).
  - American Society of Plumbing Engineers (ASPE), Los Angeles Chapter - "The Unseen Codes" Seminar (July 1987).
  - Los Angeles Unified School District, Training Program - "Water Pipe Sizing" (May 1987).
  - Plumbing Piping Industry Council - Los Angeles, CA (PPIC) - "ASPE & the Contractor" (March 1987).
  - IAPMO, Southern California Chapter - "Water Pipe Sizing" (May and June 1986).
  - Plumbing Engineer Magazine, Chicago, IL - Construction Round Table Forum (November 1984).
  - American Society of Plumbing Engineers Convention, Chicago, IL - Code Seminar (November 1984).
  - Plumbing Piping Industry Council, Los Angeles, CA (PPIC) - Plumbing Seminar (September 1984).
  - Plumbing Heating Cooling Contractors Conference (PHCC), Long Beach, CA - "Water Pipe Sizing" (May 1984).
  - American Society of Plumbing Engineers, Los Angeles Chapter - One-day Water Pipe Sizing Engineering Seminar (February 1983).
  - IAPMO Conference, Honolulu, Hawaii - Water Pipe Sizing Seminar (October 1982).
  - Reseda High School, Reseda, CA - "Energy Conservation in Restaurants" (June 1982).
  - Los Angeles School District - Seminar on Energy Conservation (March 1981).
  - Mechanical Engineers Association of California (MEAC), Los Angeles, CA - HVAC Educational Seminar (April 1980).
  - Los Angeles School Board - Hearing on Curtailment of Drafting Classes (April 1980).
  - Unified Plumbing & Piping Association of Long Beach (UPPA) - Monthly meeting (June 1977).
  - Women in Construction (WICS), Los Angeles, CA - Construction class (May 1977).
  - American Hospital Association - Annual meetings (November 1971 & December 1972).
  - National Bureau of Standards, Washington, D.C. - Opening of Plumbing Test Lab (February 1972).
  - University of Wisconsin - Engineering Symposium (December 1970).
  - Plumbing Heating Cooling Contractors of Los Angeles (PHCC-LA) - Monthly meeting (April 1968).
  - Plumbing Systems Design III - UCLA Extension (sponsored by ASPE) (1968).
  - IAPMO Annual Conference, San Francisco, CA - Education Seminar (September 1967).
  - IAPMO, Southern California Chapter - Numerous presentations at monthly meetings.
  - ASPE, Los Angeles Chapter - Panels and seminars (numerous dates).
  - Jewish Marriage Encounter - National and regional conventions (numerous dates).
  - Jewish group lectures (various dates).
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