CURRICULUM VITAE (Detailed)

Charles A. Lane, IFC™, AIA, CID, PE, SECB, CIH, CSP, LEED AP BD+C, ID+C, O+M, HOMES

PRESENT POSITION

December 1992 to present: President/CEO, Environmental Process, Inc. (EPI). Responsible for all architecture, engineering, Industrial Hygiene, and Work Place Safety design and consulting services for various clients and design projects. These projects include Food Process facilities (e.g., Schwans Sales Foods., Kemps Foods, Country Fresh Foods, Dean Foods), Industrial Process facilities (e.g., Archer Daniels Midland (ADM), Minnesota Corn Processors), Manufacturing facilities (e.g., Truth Hardware, Owatonna, MN), Government facilities (e.g., Rice County Court House, Glencoe County Court House), and Educational facilities (e.g., ISD 622, ISD 621, Minnesota State College System). EPI provides complete project design services, preparation of Construction and Bidding Documents, Project Management, Project Commissioning, and Process System Startup for the Owner/Client.

President/CEO, epi Investigations, Inc., a Minnesota licensed Private Detective Agency specializing in investigating insurance fraud and related matters in construction and insurance claims. epi Investigations, Inc. provides Forensic Architecture and Engineering Consulting services, and Forensic Safety and non-automobile Accident investigations for litigation and Insurance Claims. epi Investigations, Inc. specializes in Construction Defect Claims, and Health and Safety Injuries and Accidents. epi Investigations, Inc. provides Forensic evaluations and expert testimony in civil and criminal proceedings. epi also provides building performance evaluations, claim investigations, and expert testimony involving USGBC LEED® Certified Building and Home projects.

EDUCATION

University of Minnesota
Master of Science in Civil Engineering (MSCE)
September, 1976 - December, 1978
Department of Civil and Mineral Engineering

University of Minnesota
Bachelor of Environmental Design
School of Architecture (Honorary Scholarship)
September, 1971 - March, 1975

PROFESSIONAL LICENSES, AFFILIATIONS, CONTINUING EDUCATION, AND OTHER PROFESSIONAL ACTIVITIES

Current:
Licensed Professional Engineer - Minnesota (#18510), Colorado (#25273), Wisconsin (#28040), Pennsylvania (#42242), District of Columbia (#9657), Florida (#45535), Nebraska (#E7783), Idaho (#9079), Maryland (#24034), Michigan (#6201050057), South Dakota (#8002), Texas (#105333); Iowa (19810) - areas of practice: Civil, Structural, HVAC, Environmental.
Certified Structural Engineer, Structural Engineering Certification Board (SECB), (SE #1290-0705).
National Record with the National Council of Examiners for Engineering and Surveying (NCEES), (Record #10064).
Licensed Architect-Minnesota (#018510) and Texas (#22247).
Member, American Institute of Architects, AIA (#30070970).
Member, Minnesota American Institute of Architects (#30070970).
Minnesota Certified Interior Designer, CID (#00067).
U.S. Green Building Council (USGBC) Green Building Certification Institute (GBCI) Leadership in Energy and Environmental Design (LEED®) GA (#10297390), August, 2009-2010.
U.S. Green Building Council (USGBC) Green Building Certification Institute (GBCI) Leadership in Energy and Environmental Design (LEED®) AP O+M (#10297390), March, 2011.
U.S. Green Building Council (USGBC) Green Building Certification Institute (GBCI) Leadership in Energy and Environmental Design (LEED®) AP BD+C (#10297390), June, 2011.
U.S. Green Building Council (USGBC) Green Building Certification Institute (GBCI) Leadership in Energy and Environmental Design (LEED®) AP ID+C (#10297390), July, 2011.
U.S. Green Building Council (USGBC) Green Building Certification Institute (GBCI) Leadership in Energy and Environmental Design (LEED®) AP HOMES (#10297390), September, 2011.
Certified Industrial Hygienist (CIH), Comprehensive Practice (No. CP7359).
Certified Safety Professional (CSP), Comprehensive Practice (No. 17590).
Licensed Mold Assessment Consultant (MAC), Texas Department of Health Services, #1164664, August 4, 2010.
Fellow, National Academy of Forensic Engineers (NAFE) (#609F).
Member, National Society of Professional Engineers (NSPE) (#103515114).
Member Society of Safety Engineers (ASSE) (Professional Member #59878).
Member American Society of Civil Engineers (ASCE) (#464426)
Board Certified Building Inspector Engineer (CBIE), The Building Inspection Engineers Certification Institute (BICCI)/NSPE, (Certificate No. 12).

Insurance Fraud Certified™ (IFC) Level I and Level II, North American Training Group, Inc.
Qualified Neutral Rule 114 of the Minnesota Rules of General Practice (ADR I.D. #: 4422), Adjudicative/Evaluative- Civil
AHERA Certified Asbestos Building Inspector.
AHERA Certified Asbestos Management Planner.
Member, American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) (#5017920).
Member, Air and Waste Management Association AWMA (#163041).
Member, American Industrial Hygiene Association (AIHA) (#123571).
Registered Professional Industrial Hygienist (RPIH), Association of Professional Industrial Hygienists (#07390900).
Licensed Minnesota Adult Vocational Instructor for Alternative Fuel Resources and Architectural Drawing (#268432).
Licensed Minnesota Maxi-Energy Auditor.
Minnesota Boiler Engineer's License-Second Class, Grade-C (#C43829).

Past:

Affiliate Member, International Facility Managers Association (IFMA).
Board Member, Indoor Air Quality Committee, American Lung Association of Minnesota (ALAM) 1995 – 1996.
Member, American Society of Heating, Refrigerating, and Air-Conditioning Engineers, (ASHRAE) (#5017920); Corresponding Member TC 9.9 "Building Commissioning" (1995 - 1998).
Jury Member, 1990-1991 Twin City Remodelers Competition, Minnesota Builders Association (MBA).
Member of the Coordinating Committee for the Minnesota Energy Council, 1984-1988.
American Society for the Advancement of Science (ASAS).
Consultant to the American Standards Testing Bureau (ASTB), Inc. on Underground Waterproofing and Construction Litigation (1983).
Member of the Board of directors for the National Earth Shelter Builders Association (ESBA), (1985).
MPCA Representative on the Minnesota Governors Commission on Decommissioning of Nuclear Power Plants, (1987).
Member of the Minnesota Senate Tri-State Homes Commission Investigation, (1986-87).
Member of the Minnesota Indoor Air Quality Task Force, (1984-87).
Section Monitor for the Air Pollution Control Association (APCA) Conference, (June, 1986).
One of 40 people invited to participate in the "1984 International Superinsulation Forum", Rochester, Minnesota, (April 14-15, 1984).
Invited to participate in the International Conference on Earth-Sheltered Buildings in Sydney, Australia, (August 1983).
Invited to participate in the People-to-People Underground Space Delegation to the People's Republic of China, (Aug/Sept, 1981).
Selected to be one of the 12 jury members to select the winning design entries in the Minnesota Housing Finance Agency's (MHFA) Energy Efficient Housing Demonstration Program (EEHDP) to encourage builders to design and construct energy efficient homes. The $11 million project resulted in 23 Minnesota builders employing 33 designs to construct 144 single and multi-family homes throughout Minnesota, (1979-1980).

ARCHITECTURE, ENGINEERING, INTERIOR DESIGN, USGBC LEED®, INDUSTRIAL HYGIENE, AND SAFETY CONTINUING EDUCATION COURSES COMPLETED SINCE 1975:

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- Comparison of LEED Rating Systems, RedVector, Course No. RV999, September 14, 2011 (1.0 Hour).
- Ethics in the Practice of Industrial Hygiene, University of Minnesota School of Public Health, Minneapolis, Minnesota September 21, 2011 (2.0 Hours).
- Achieving LEED Credits in New Construction, RedVector, Course No. RV998, September 13, 2011 (6.0 Hours).
- Law, Rules and Ethics for Florida Engineers, PDengineer Course No. L-4006, May 29, 2011 (4.0 Hours)
- Structural Design Criteria for Raised Floor Systems, PDengineer Course No. C-4010, May 29, 2011 (4.0 Hours).
- 2011 Minnesota Safety and Health Conference, Minnesota Safety Council, Minneapolis, Minnesota, May 11-13, 2011 (24.0 Hours).
- Contract Documents Risk Management, Zurich Commercial Markets Webinar, January 27, 2011 (1.0 Hour).
- Private Sector Liability, Course No. CTTA850 Charles T. Thibodeau & Associates, Minneapolis, Minnesota, February 18, 2011 (6.0 Hours).
- ICC Upper Great Plaines Region III Educational Institute Conference, Brooklyn Park, Minnesota February 7-11, 2011 Phone 1-888-422-7233) (35.0 Hours).
- Asbestos Building Inspector and Asbestos Management Planner Refresher Course, Lake States Environmental, St. Paul, MN, October 21, 2011 (8.0 Hours).
- M1-01 Mold Assessment Consultant Course and M1-02 Texas Mold Assessment and Remediation Rules, Certificate No. 0610-1419A, AEHS Inc., San Antonio, Texas, June 28-July 2, 2010 (35.0 Hours).
- Asbestos Building Inspector and Asbestos Management Planner Refresher Course, Lake States Environmental, St. Paul, MN, September 9, 2010 (8.0 Hours).
- AEC Daily Ventilated Wall Systems: Porcelain Stoneware Cladding Solution for Energy Efficient Buildings, Course No. AEC395 (AM-EN-39501-0411), May 18, 2010 (1.0 Hour).
- AEC Daily Designing a Sustainable Kitchen: Principles of the National Green Building Standard, Course No. AEC384 (WH-EN-38401-0111), May 18, 2010 (1.0 Hour).

- AEC Daily Wall Hanging Systems, Course No. AEC398 (AS-EN-39801-0811), May 18, 2010 (1.0 Hour).
- AEC Daily Creating Healthy Living Environments with New Paint Technology, Course No. AEC236 (BM-EN-23606-1210), May 18, 2010 (1.0 Hour).
- AEC Daily Appliances & The Green Home, Course No. AEC321 (WH-EN-32105-1210), May 19, 2010 (1.0 Hour).
- AEC Daily Acoustical Ceiling Restoration, Course No. AEC141 (PC-EN-14106-1109), May 19, 2010 (1.0 Hour).
- AEC Daily Radiant Air Conditioning Systems: Sustainable Energy Efficiency, Course No. AEC393 (TE-EN-39301-0411), May 19, 2010 (1.0 Hour).
- AEC Daily Commercial Grade Sheet Vinyl Flooring, Course No. AEC363 (GE-EN-36302-1010), May 19, 2010 (1.0 Hour).
- 76th Annual Minnesota Safety and Health Conference, Minneapolis, Minnesota, May 12-14, 2010 (21.0 Hours).
- Ensuring Stronger Contractor Contracts, RFJ/Meagher & Geer, Golden Valley, Minnesota, March 3, 2010 (2.0 Hours).
- Alternatives to Use of Force, CITA305 and CITA306, Charles T. Thibodeau & Associates, Private Detective Training, February 4, 2010 (6.0 Hours).
- 54th Annual Institute for Building Officials, University of Minnesota, St. Paul, Minnesota, January 14-15, 2009 (12.0 Hours).
- Mold Recognition, Identification and Remediation University of Minnesota School of Public Health, March 18-19, 2009 (14.0 Hours).
- Florida Laws and Rules Mandatory Course for Licensed Professional Engineers-2009-2011, Professional Online Educators, Inc. Course No. EL0056, October 2, 2009 (4.0 Hours).
- Causes of Distress and Deterioration of Concrete, Professional Online Educators, Inc. Course No. SE0030, October 2, 2009 (2.0 Hours).
- Negotiation Best Practices in a Tough Economy, Hennepin County Bar Association, Minneapolis, Minnesota, October 9, 2009 (6 CLE for ADR Rule 114 credits).
- Asbestos Building Inspector and Asbestos Management Planner Refresher Course, Lake States Environmental, St. Paul, MN, October 15, 2009 (8.0 Hours).
- Information Gathering and Advanced Information Gathering, CTTA320 and CTTA321, Charles T. Thibodeau & Associates, Private Detective Training, February 25, 2009 (6.0 Hours).
- ICC Upper Great Plains Region III Educational Institute, Brooklyn Park, Minnesota, February 9-13, 2009 (35.0 Hours).
- 53rd Annual Institute for Building Officials, University of Minnesota, St. Paul, Minnesota, January 18, 2009 (6 Hours).
- Legal Issues in Green Buildings, AIA/ Halfmoon Continuing Education, Eau Claire, Wisconsin, January 16, 2009.
- Torsion Design of Structural Concrete Based on ACI 318-05 Portland Cement Association, November 7, 2008 (1.0 Hour).
- Auditing Health and Safety Management Systems, American Industrial Hygiene Association (AIHA) Course Number SMAV00-426, January 2008 (8.0 Hours).
- Minnesota Courtroom Evidence Deskbook, Minnesota State Bar Association Continuing Legal Education, Minnesota CLE Conference Center, November 3, 2008 (6.0 Hours).
- Subgrade Improvement for Paved and Unpaved Surfaces Using Geogrids, Practicing Engineering Institute, October 10, 2008 (1.0 Hour).
- Asbestos Building Inspector and Asbestos Management Planner Refresher Course, Lake States Environmental, St. Paul, MN, October 9, 2008 (8.0 Hours).
- Mold Session Tract, American Industrial Hygiene Association (AIHA) DLP Course, September 24, 2008 (12 Hours).
- Structural Steel Shop Drawing Review: The Present-The Future, Tekla Engineering North America, On-line PDH, August 11, 2008 (1.0 Hour).
- Minnesota State Bar Association Continuing Legal Education, E-Discovery, Minneapolis, Minnesota, July 21, 2008 (5.25 Hours).
- 2008 AIHA Annual Conference and Symposium, Minneapolis, Minnesota, June 2-5, 2008 (4.5 Hours).
- Minnesota Safety Council Annual Conference, Minneapolis, Minnesota, May 14-16, 2008 (2.5 Hours).
- Construction Law Section, Annual Meeting & Symposium, Multi-Family Construction Defect Litigation, Minnesota State Bar Association, Minneapolis, Minnesota, June 6, 2008 (2.5 Hours).
- Full Circle: Fenestration for the Complete Building Envelope, AIA/Architectural Record CES, May 4, 2008 (1.0 Hour).
- Laboratory QA and QC, American Industrial Hygiene Association (AIHA) Course Number BIHS02-551, January 2008 (40.0 Hours).
- Case Studies in the Application of Industrial Hygiene, American Industrial Hygiene Association (AIHA) Course Number BIHS02-551, January 2008 (32.0 Hours).
- Moisture Control, Mold and the Science Within the Building, American Industrial Hygiene Association (AIHA) Course Number IMOV05-700, January 2008 (8.0 Hours).
- 2008 ICC Upper Great Plains Region III Educational Institute, Brooklyn Park, Minnesota, February 4-5, 2008 (16.0 Hours).
- Catastrophes & Fraud, North American Training Group, February 15, 2008 (3.0 Hours).
- 52nd Annual Institute for Building Officials, University of Minnesota, St. Paul, Minnesota, January 14-18, 2008 (40 .0Hours).

- Information Gathering and Advanced Information Gathering, CITA320 and CITA321, Charles T. Thibodeau & Associates, Private Detective Training, January 17, 2008 (6.0 Hours).
- 2008 Upper Great Plains Region III Educational Institute, February 4-5, 2008 (16.0 Hours).
- 2007 International Association of Special Investigation Units Annual Seminar, LasVegas, Nevada September 10-12, 2007 (20.0 Hours) **- Instructor**.
- Midwest Chapter of the Minnesota International Code Council, Education seminar, Redwood Falls, Minnesota November 21, 2007 (1.5 Hours) **– Instructor**.
- Asbestos Building Inspector and Asbestos Management Planner Refresher Course, Lake States Environmental, St. Paul, MN, October 11, 2007 (8.0 Hours).
- Insurance Fraud Certified™ (IFC), Level II North American Training Company, On-line training course, May 24, 2007 (10.0 Hours).
- Understanding Energy-Efficient Windows and Doors, Marvin Windows and Northwestern Lumber Association, Bloomington, Minnesota, January 22, 2007 (3.0 Hours).
- Scaffolding-Competent Person, Minnesota Safety Council, St. Paul, Minnesota, March 30, 2007 (7.0 Hours).
- Machine Guarding Basics, Minnesota Safety Council, St. Paul, Minnesota, February 16, 2007 (6.5 Hours).
- Respirator Fit Testing-Hands On, Minnesota Safety Council, St. Paul, Minnesota, February 27, 2007 (3.5 Hours).
- 2007 ICC Upper Great Plains Region III Educational Institute, Brooklyn Park, Minnesota, February 5-6, 2007 (6.0 Hours).
- Understanding Energy-Efficient Windows and Door, Northwestern Lumber Association, Bloomington, Minnesota, January 22, 2007 (3.5 Hours).
- ICC Upper Great Lakes Plains Region III Educational Institute, Stucco and EIFS Applications, Brooklyn Park, Minnesota, February 5, 2007 (7.0 Hours).
- 51st Annual Institute for Building Officials, University of Minnesota Continuing Education, St. Paul, Minnesota, January 3 through 12, 2007 (48.0 Hours).
- Design/Build Project Delivery Systems, Engineer Educators, Tallahassee, Florida, November 29, 2006 (4.0 Hours).
- Administering Construction Documents, Engineer Educators, Tallahassee, Florida, November 29, 2006 (4.0 Hours).
- Fundamentals of Effective Mediation Advocacy, American Arbitration Association, December 12, 2006 (2.5 Hours).
- PowerPersuasion, Graig Ball, Minnesota CLE, Minneapolis, Minnesota, October 16, 2006 (2.0 Hours).
- E-Discovery and Computer Forensics in 2006, Craig Ball, Minnesota CLE, Minneapolis, Minnesota, October 16, 2006 (3.0 Hours).
- Insurance Fraud Certified™ (IFC), Level I North American Training Company, On-line training course, October 15, 2006 (10.0 Hours).
- Asbestos Building Inspector and Asbestos Management Planner Refresher Course, Lake States Environmental, St. Paul, MN, September 7, 2006 (8 Hours).
- 2006 International Association of Special Investigation Units Annual Seminar, LaQuinta, California September 11-13, 2006 (16.0 Hours).
- AWAIR (A Workplace Accident and Injury Reduction) Workshop, Minnesota Safety Council, St. Paul, Minnesota, March 1, 2006 (4.0 Hours).
- Basic Investigative Techniques, Century College POST Law Enforcement Program, White Bear Lake, Minnesota, April 11, 2006 (8.0 Hours).
  Cost Effective Pile Design, University of Minnesota, St. Paul, Minnesota, February 22, 2006 (3 Hours).
- Essentials of Lateral Load Design for Wood Frame Structures, University of Minnesota, St. Paul, Minnesota February 8, 2006 (3.0 Hours).
- Structural Lumber Connector Design and Specification, USP Structural Connectors and Northwestern Lumber Association, Bloomington, Minnesota, January 31, 2006 (8.0 Hours).
- Minnesota Multi-Housing Association (MMHA) Seminar, Minneapolis, Minnesota, January 26, 2006 (8.0 Hours) - **Instructor.**
- OSHA Fall Protection, Minnesota Safety Council, St. Paul, Minnesota, January 20, 2006 (8 Hours).
- First Aid/CPR/AED Employee Training Hands-On, Minnesota Safety Council, St. Paul, Minnesota, January 19, 2006 (8.0 Hours).
- 50th Annual Institute for Building Officials, University of Minnesota, St. Paul, Minnesota, January 9-11, 2006 (24 .0Hours)
- Current Topics in IH and EHS, AIHA-UMS Professional Development Conference, Minneapolis, Minnesota, November 17, 2005 (7.0 Hours).
- Chapter 471, F.S., the Florida Engineer Registration Law, and Chapter 61G-15, F.A.C., the Rules of the Florida Board of Professional Engineers, Engineering Educators, Tallahassee, Florida (On-Line Correspondence Course), October 17, 2005 (4 Hours).
- Commercial Plan Review, Minnesota Building Codes and Standards Division, St. Paul, Minnesota, October 6, 2005 (7.0 Hours).
- Residential Plan Review, Minnesota Building Codes and Standards Division, St. Paul, Minnesota, October 7, 2005 (7.0 Hours).
- Asbestos Building Inspector and Asbestos Management Planner Refresher Course, Lake States Environmental, St. Paul, MN, September 14, 2005 (8.0 Hours).

- Certified Civil Arbitration Training, Minnesota State Bar Association Continuing Legal Education, Minneapolis, Minnesota, August 2, 2005 (7.0 hours).
- Microsoft PowerPoint, Anoka-Ramsey Community College, Coon Rapids, Minnesota, July 28, 2005 (7.0 hours).
- Emergency Response Training (24-hour)-Hazwoper, Minnesota Safety Council, St. Paul, Minnesota, May 24-26, 2005 (24.0 hours).
- The Proposed Residential Energy Code and the Mechanical Code for Residential Construction, Minnesota Building Codes and Standards Division, St. Paul, Minnesota, April 5, 2005 (7.0 hours).
- Minnesota Indoor Air Association Seminar, Minneapolis, Minnesota, December 8-9, 2004 (10.0 hours).
- Minnesota Building and Fire Codes, AIA Minnesota, St. Paul, Minnesota, December 9, 2004 (2.75 hours).
- Solving Water Intrusion and Mold Problems in Minnesota, Lorman Educational Services, St. Paul, Minnesota, September 29, 2004 (8.0 Hours) - **Instructor.**
- Asbestos Building Inspector and Asbestos Management Planner Refresher Course, Lake States Environmental, St. Paul, MN, September 15, 2004 (8.0 Hours).
- Minnesota Private Detective Pre-Assignment Training, Century College, White Bear Lake, MN, September 17, 2004 and September 20, 2004 (12.0 Hours).
- Building Code 101, Residential Construction Defect Claims, Minnesota State Bar Association CLE, May 24, 2004 **– Instructor** (2.0 Hours).
- Trenching And Excavating, Minnesota Safety Council, St. Paul, Minnesota, March 24, 2004, (8.0 Hours).
- Machine Guarding Basics, Minnesota Safety Council, St. Paul, Minnesota, February 5, 2004, (4.0 Hours).
- OSHA 500 10-Hour Construction Safety, Minnesota Safety Council, St. Paul, Minnesota, January 27-28, 2004 (14.0 Hours).
- 48th Annual Institute For Building Officials, University of Minnesota, St. Paul, Minnesota, January 8, 2004 (8.0 Hours).
- 2003 Builders Symposium, Minnesota Department of Commerce, Brooklyn Center, Minnesota, December 12, 2003 (7.0 Hours).
- Advances In Environmental Mold Issues In Minnesota, Lorman Educational Services, Minneapolis, Minnesota, October 29, 2003 – **Instructor** (8.0 Hours).
- The 21st Annual Real Estate Institute, November 21-22, 2003, St. Paul, Minnesota – **Instructor** (14.0 Hours).
- National Air Duct Cleaners Association (NADCA), Eagan, Minnesota, September 19-20, 2003 – **Instructor** (4.0 Hours).
- Occupational Health and Safety Technician (OHST) Examination Preparation Workshop, Minnesota Safety Council, St. Paul, Minnesota, May 19-21, 2003 (24.0 Hours).
- Solving Water Intrusion and Mold Problems in Minnesota, Lorman Educational Services, St. Paul, Minnesota, May 15, 2003 (8.0 Hours) – **Instructor**
- Fugitive Recovery Course, US Bail Enforcement, St. Paul, Minnesota, May 2-4, 2003 (20.0 Hours).
- When Mold Takes Hold, Minnesota State Bar Association, Continuing Legal Education, Minneapolis, Minnesota, April 9, 2003 (8.0 Hours) - **Instructor.**
- Mold Litigation in Minnesota, Lorman Educational Services, Minneapolis, Minnesota, March 26,2003 (8.0 Hours) – **Instructor.**
- Solving Water Intrusion and Mold Problems in Minnesota, Lorman Educational Services, Duluth, Minnesota, March 20, 2003 (8.0 Hours) – **Instructor.**
- Boiler Code Requirements, Minnesota Building Codes and Standards Division, St. Paul, Minnesota, March 5, 2003 (8.0 Hours).
- Principles of Occupational Safety and Health (POSH), Minnesota Safety Council, St. Paul, Minnesota, February 17-20, 2003 (24.0 Hours).
- Laws and Rules of the Florida Board of Professional Engineers, INFORMED Department of Continuing Education, CEU # 00026, Jacksonville Florida, January 17, 2003, (4.0 Hours).
- Engineering for Fall Protection in Construction, PDH Center, Herndon, Virginia, January 26, 2003 (4.0 Hours).
- Minnesota Energy Code, Lake County / North Star Chapters of ICBO and State Building Codes and Standards, Maplewood, Minnesota, October 17, 2002 (8.0 Hours).
- Asbestos Building Inspector Refresher and Management Planner Refresher, Lake States Environmental, White Bear Lake, Minnesota, September 19, 2002 (8.0 Hours).
- Boilers: An Operator's Workshop, National Technology Transfer, Inc., Minneapolis, Minnesota, November 12-14, 2002 (24.0 Hours).
- Minnesota Construction Law: What Do You Do When...? , National Business Institute, Minneapolis, Minnesota, June 27, 2002 (6.0 Hours).
- Reliant Energy Spring Technology Conference, Earle Brown Heritage Center, Brooklyn Center, Minnesota, May 7, 2002 (7.0 Hours) - **Instructor**.
- Rochester Minnesota Chapter of ASHRAE, Rochester, Minnesota, May 21, 2002 (1.0 Hour) - **Instructor**.
- Solving Water Intrusion and Mold Problems in Minnesota, Lorman Educational Services, St. Paul, Minnesota, May 15, 2002 (7.0 Hours) - **Instructor**.
- Solving Water Intrusion and Mold Problems, Lorman Education Services, Mpls., MN, April 24, 2002 (7.0 Hours) - **Instructor**.

- Electrical Standards and Electrical Safe Work Practices (OSHA 309A), Midwest Center for Occupational Health and Safety, St. Paul, Minnesota; April 8-11, 2002 (28.0 Hours).
- Trenching, Backfilling and Soil Mechanics Safety Course, (OSHA 301), Midwest Center for Occupational Health and Safety, St. Paul, Minnesota, January 14-17, 2002 (24.0 Hours).
- Computer Scanning, Science Museum of Minnesota, Edina, Minnesota, January 21, 2002 (0.5 Hour).
- Building Code Administration Core, Florida Building Commission, Florida State University, Tallahassee, Florida, Course Number 1, December 16, 2001 (4.0 Hours).
- Digital Camera Introduction, Science Museum of Minnesota, Edina, Minnesota, November 12, 2001 (0.5 Hour).
- Asbestos Inspector Refresher and Asbestos Management Planner Refresher, Lake States Environmental LTD, St. Paul, Minnesota, September 20, 2001 (1.0 Hour).
- Occupational Safety and Health Standards for General Industry (OSHA 501), Midwest Center for Occupational Health and Safety, St. Paul, Minnesota, September 10-13, 2001 (4.0 Hours).
- Certified Safety Professional (CSP) Examination Preparation Workshop, Minnesota Safety Council, St. Paul, Minnesota, February 22-24, 2001 (2.4 Hours).
- International Building Code; AIA Minnesota, Minneapolis, Minnesota, March 1, 2001 (7.0 Hours).
- Lead-Based Paint Detection On-Site Metals Analysis Radiation Safety, NITON, Bloomington, Minnesota, May 10, 2001 (1.0 Hour).
- Understanding and Managing Risk; Level 1 and Level 2, CNA/Schinnerer Voluntary Educational Program (VEP) for Design Professionals, January 30, 2001 (36.0 PE Hours and 36.0 AIA Hours).
- Microorganisms in the Indoor Air, AIHCE, Orlando, Florida, May 20, 2000 (8.0 Hours).
- Fundamentals of Laboratory Ventilation, AIHCE, Orlando, Florida, May 20, 2000 (8.0 Hours).
- Basics of Industrial Electricity II, Performance Training Associates, Inc., (PTA) Mpls., MN, December 3, 1999 (1.0 Hour).
- Commercial Kitchen Ventilation Systems, Reliant Energy, Minneapolis, Minnesota, November 8, 1999 (1.0 Hour).
- Confined Space Entry, Minnesota Safety Council, St. Paul, Minnesota, October 13, 1999 (0.7 Hour).
- Waterproofing, AIA/CES Seminar, St. Paul, Minnesota, October 13, 1999 (1.0 Hour).
- Asbestos Inspector Refresher and Asbestos Management Planner Refresher, Lake States Environmental LTD, St. Paul, Minnesota, October 5, 1999 (4.0 Hours).
- Lonworks: Building Automation Systems, University of Wisconsin, Extension, Madison, WI, September 13-15, 1999 (3.0 Hours).
- Healing Environments, AIA Minnesota, Minneapolis, Minnesota, July 19, 1999 (2.25 Hours).
- Assessing and Remediation Microbial Contamination in the Indoor Environment, AIHA Convention and Exposition, Toronto, Ontario, Canada June 5, 1999 (2.0 Hours).
- Introduction Occupational Toxicology, AIHA Convention and Exposition, Toronto, Ontario, Canada, June 6, 1999 (1.0 Hour).
- AIHA Convention, Toronto, Ontario, Canada, June 7 - 9, 1999 (3.0 Hours).
- Real Estate License Counsel Two Children Died: A True Case Study in Agent Liability Pro Source Educational Services, Minneapolis, Minnesota, March 31, 1999 (3.75 Hours).
- New Life for Old Buildings, Minnesota AIA, St. Paul, Minnesota, May 19, 1999 (8.25 Hours).
- Exposure Assessment Strategies, Midwest Center for Occupational Health and Safety, Minneapolis, Minnesota, March 24-25, 1999, (2.0 Hours).
- Minnesota Energy Code Seminar, MDPS, Minneapolis, Minnesota, March 4, 1998 (6 Hours).
- Microbiological Sampling, AIHA Professional Development Course, Atlanta, Georgia, May 8-9, 1998 (2.0 Hours).
- AIHA Convention, Atlanta, Georgia (3.0 Hours).
- Structural Design of Foundations, U of Wisconsin PD; Madison, Wisconsin, February 23 - 25, 1998 (3.0 Hours).
- Application of Fire and Smoke Control Systems, ASHRAE, Bloomington, Minnesota, November 11, 1997 (4.0 Hours).
- ACI/TMS Seminar, The New Masonry Code, Minneapolis, Minnesota, October 16, 1997 (14.0 Hours).
- 1997 ASHRAE Education Committee; Minneapolis, Minnesota, March 27, 1997 (2.0 Hours).
- 1998 AIHA Education and Annual Convention, Atlanta, Georgia, May 9 - 15, 1998 (14.0 Hours).
- Design Build, AIA Minnesota, St. Paul, Minnesota, January 28, 1997, (6.0 Hours).
- Minnesota Energy Code Seminar, MDPS, Minneapolis, Minnesota, March 19, 1997 (6.0 Hours).
- Architectural Woodwork, AIA Minnesota, Minneapolis, Minnesota, March 7, 1997 (4.0 Hours).
- Life Span of Curtainwalls, AIA Minnesota, St. Paul, Minnesota, February 25, 1997 (6.0 Hours).
- Industrial Refrigeration Systems Design, Department of Engineering Professional Development, College of Engineering, University of Wisconsin, Madison. February 3-4, 1997. (4.0 Hours).
- Construction Cost Estimating, Minnesota AIA, Minneapolis, Minnesota, 12/4/96. (4.0 Hours).
- Americans with Disabilities Act and the Minnesota Accessibility Code, ICBO, AIA Minnesota, St. Paul, MN, Sept. 17, 1996 (6.5 Hours).
- Architectural Applications of UBC, ICBO, AIA Minnesota, St. Paul, Minnesota, September 10-11, 1996. (18.0 Hours).
- General Guide Cleaning and Protecting Masonry, MN Masonry Institute, AIA Minnesota, Mpls., MN, April 16, 1996 (3.0 Hours).
- Fundamentals of Seismic Design, Department of Engineering Professional Development, University of Wisconsin, Madison, Wisconsin, April 23 - 25, 1996 (1.8 Hours).

- Controlling Project Costs, AIA Minnesota, Minneapolis, Minnesota, April 11, 1996 (6.0 Hours).
- Selecting Structural Systems, AIA Minnesota, Minneapolis, Minnesota, March 27, 1996 (4.0 Hours).
- Special Inspections, Understanding/Implementing, Chapter 17 UBC, AIA Minnesota, St. Paul, MN, March 14, 1996 (6.0 Hours).
- Indoor Air Quality, Midwest Center for Occupational Safety and Health, February 7 - 8, 1996, (3.0 Hours) – **Instructor**
- Design of Ammonia Refrigeration Systems, the Department of Engineering Professional Development, College of Engineering, University of Wisconsin, Madison, Wisconsin, September 11 - 15, 1995 (4.0 Hours).
- Residential Assisted Living, AIA Minnesota (4.0 Hours).
- From Rome to Cyberspace, Minnesota AIA, November 6, 1995, (8.0 Hours).
- Indoor Air Quality, Midwest Center for Occupational Safety and Health, February 7 - 8, 1995, (3.0 Hours) – **Instructor**
- ASHRAE Self Study Course "Industrial Ventilation", October 1994 (3.5 Hours).
- AHERA Accredited Asbestos Building Inspector and Management Planner, Midwest Center for Occupational Safety and Health, St. Paul, Minnesota, January 25-29, 1993 (3.0 Hours), November 17, 1994, November 16, 1995.
- Energy Efficient Design and Retrofit of Air Systems, ASHRAE Self Study Course June, 1994 (3.0 Hours).
- Energy Efficient Design of Water Systems, ASHRAE Self Study Course July 1994 (3.0 Hours).
- Hazardous Waste Training, Hennepin County, Rosemount, Minnesota, May 18, 1994 (4.0 Hours).
- Indoor Air Quality, the Architect's Role, AIA Minnesota, June 23, 1994, (6.0 Hours).
- Indoor Air Quality, Midwest Center for Occupational Safety and Health, February 14 - 16, 1994, (3.0 Hours) **– Instructor**
- Indoor Air Quality, Midwest Center for Occupational Safety and Health, January 15-17, 1993 (3.0 Hours) – **Instructor**
- Advanced Control Concepts with DDC, Department of Engineering Professional Development, College of Engineering, University of Wisconsin - Madison, Madison, Wisconsin. June 22 - 24, 1992 (3.0 Hours).
- Comprehensive Industrial Hygiene Review Course, Ramsey Foundation/CME, St. Paul, MN, March 9-13, 1992 (3.9 Hours).
- Hazardous Materials Management, Padgett-Thompson, Minneapolis, Minnesota, January 21, 1992, (1.0 Hour).
- Conducting Indoor Air Quality Investigations, Midwest Center for Occupational Safety and Health, St. Paul, Minnesota, January 14-16, 1992, (2.4 Hours) – **Instructor**
- Building Codes and Standards, Graduate Builders Institute, St. Paul, Minnesota, October 25, 1991 (0.6 Hour)
- MPCA Solid Waste Permit Workshop, St. Paul, Minnesota, May 9, 1991 (4.0 Hours).
- MILE's Construction Institute 1991, Minnesota Institute of Legal Education, Minneapolis, MN May 15-17, 1991 (3.0 Hours).
- ASID/IBD/IFMA Codes, Regulating, Interior Space Design, Minneapolis, MN, April 27, 1991, (0.6 Hour)
- Minnesota Chapter of ASHRAE, Energy/Education Committee Seminar, February 26, 1991 (1 CEU) – **Instructor**
- 35th Annual Institute for Building Officials, University of Minnesota, Minneapolis, Minnesota, January 10, 1991 (1 Hour).
- HVAC Air Distribution, The Department of Engineering Professional Development, College of Engineering, University of Wisconsin - Madison, Madison, Wisconsin, November 5-9, 1990 (5.0 Hour).
- Design of Air Systems for Commercial Buildings, The Department of Engineering Professional Development, College of Engineering, University of Wisconsin Madison, Madison, Wisconsin, April 2-6, 1990 (5.0 Hour).
- Air Conditioning Design - Air Distribution, the Department of Engineering Professional Development, College of Engineering, University of Wisconsin - Madison, Madison, Wisconsin, April 2-6, 1990 (5.0 Hour).
- Air Conditioning Controls-O & M The Department of Engineering Professional Development, College of Engineering, University of Wisconsin Madison, Madison, Wisconsin, October 9-13, 1989, (5.0 Hours).
- Indoor Air Quality The Department of Engineering Professional Development, College of Engineering, University of Wisconsin Madison, September 12-13, 1990, and the NTU Satellite Network, Madison, Wisconsin, September 28-29, 1989. (1.2 Hours) – **Instructor**
- Healthy Buildings/Sick Buildings: The Minnesota Challenge, Indoor Air Quality in Commercial Buildings American Lung Association of Minnesota, Honeywell, St. Paul Association of Building Owners and Managers, ASHRAE-Minnesota Chapter, Minneapolis, Minnesota, May 2, 1989 (1 Hour) – **Instructor**
- Residential Ventilation Systems: Design, Sizing and Installation University of Wisconsin-Madison, Madison, Wisconsin, February 13-15, 1989 (1.8 Hours) – **Instructor**
- Commercial/Industrial Energy Analysis The Department of Professional Engineering Development, College of Engineering, University of Wisconsin-Extension, Madison, Wisconsin, 11/14-18, 1998 (4.0 Hour).
- Indoor Air Quality Diagnostics Honeywell Professional Training Course, Minneapolis, Minnesota, June 11-13, 1990, November 13-17, 1989, September 27-29, 1989, May 15-19, 1989, March 6-10, 1989, October 13-17, 1988, and August 1-5, 1988 (40.0 Hours per course) - **Instructor and Course Developer**
- Residential Ventilation Systems: Design, Sizing and Installation University of Wisconsin-Madison, Madison, Wisconsin, June 20-22, 1988 (1.8 Hours) – **Instructor**
- Course 453 Overview of PSD Regulations, Air Pollution Training Institute, U.S. Environmental Protection Agency, January, 1988 (1.5 Hours).

- Moisture and Related Problems in Buildings, American Association of Housing Instructors, BTECC, Newport, Rhode Island, November 2-3, 1987, (2.0 Hours) – **Instructor**
- Residential Ventilation Systems: Design, Sizing and Installation, University of Wisconsin-Madison, Madison, Wisconsin, October 26-28, 1987 (1.8 Hours) – **Instructor**
- Fundamentals of Effective Permit Drafting, Air Pollution Training Institute, U.S. Environmental Protection Agency, St. Paul, Minnesota, October, 1987 (4.0 Hours).
- Introduction to Gas Chromatographic Analysis, Minnesota Pollution Control Agency, May 5, 1987 (2.0 Hours).
- Environmental Statistics, Minnesota Pollution Control Agency Training Course, March 30 - April 2, 1987 (4.0 Hours).
- Municipal Waste Incinerators, Minnesota Pollution Control Agency Training Course, St. Paul, Minnesota, April 1, 1987 (4.0 Hours).
- Course 434, Introduction to Ambient Air Monitoring, Air Pollution Training Institute, U.S. Environmental Protection Agency, St. Paul, Minnesota, December, 1986 (5.0 Hours).
- Course 431, Air Pollution Control Technology, Air Pollution Training Institute, U.S. Environmental Protection Agency, Minneapolis, Minnesota, August, 1986 (3.0 Hours).
- Course 452, Principals and Practice of Air Pollution Control, Air Pollution Training Institute, U.S. Environmental Protection Agency, Chicago, Illinois, June 2-6, 1986 (2.0 Hours).
- Moisture and Indoor Air Pollution in Residences, The Department of Professional Engineering Development, College of Engineering, University of Wisconsin-Madison, November 11-13, 1985 (4.0 Hours) –**Instructor**
- Humidity Instrumentation Seminar, Kim Controls, Inc., St. Paul, Minnesota, November 5, 1985 (2.0 Hours).
- Energy Test Equipment Workshop, Minnesota Department of Energy and Economic Development, St. Paul, Minnesota, October 14, 1985 (4.0 Hours).
- Course 6540, Closed Loop/Ground Coupled Heat Pump Teleconference, Hennepin Technical Center in cooperation with Oklahoma State University, September 4, 1985 (4.0 Hours).
- Practical Building Science, Building Engineering Design Corporation, Toronto, Canada, Minneapolis, Minnesota, November 29-30, 1984 (3.0 Hours) – **Instructor**
- Superinsulation Curriculum, University of Minnesota - Extension, Minneapolis, Minnesota, March 2-3, 1984 (14.0 Hours)– **Instructor**
- The Effective Use of Building Insulation, The Department of Professional Engineering Development, College of Engineering, University of Wisconsin, Madison, September 10-11, 1981 (3.0 Hours), and October 4-5, 1982 (3.0 Hours) – **Instructor**
- Built-Up Roofing Design, The Department of Professional Engineering Development, College of Engineering, University of Wisconsin, Madison, Wisconsin, December 1-5, 1980 (4.0 Hours).
- Basic Electrical, Richfield Public Schools in Cooperation with the University of Minnesota - Extension, Richfield, Minnesota, Fall, 1981 (2.0 Hours).
- The Wisconsin Science Fiction Convention, The Department of Professional Engineering Development, College of Engineering, Madison, Wisconsin, January 16, 1981 (8.0 Hours).
- New Residential Inspection, The Department of Professional Engineering Development, College of Engineering, University of Wisconsin-Madison, January 14-16, 1981 (3.0 Hours) – **Instructor**
- MASEC Solar Up-Date 1980, Trinity University Continuing Education, San Antonio, Texas, September 10, 1980 (2.4 Hours).
- Homeowners Automated Training, Fireman's Fund American Insurance Company, July 30, 1975 (40.0 Hours).
- Fireman's Fund American Insurance Companies, Property; Casualty; Risk Assessment, and Property Loss Estimating Claims Correspondence Schools, Minneapolis and Chicago, July, 1975-September, 1976 (40.0 Hours).
- Dwelling Fire, Automated Training, Fireman's Fund American Insurance Company, August 1, 1975 (16.0 Hours)

PAST PROFESSIONAL WORK EXPERIENCE

1) Legend Technical Services, Inc., St. Paul, Minnesota. August 1991 to December, 1992.

   Technical Director - Responsible for providing leadership in areas of indoor air quality, HVAC commissioning, environmental compliance audits and investigations, construction loss investigations, architecture, engineering, providing expert testimony

2) Twin City Testing Corporation, Chemistry/Environmental Division, A Member of the HIH Group of Companies, St. Paul, Minnesota, May 1990 to August 1991.
   Manager, Environmental New Program Development, Environmental Services - Responsible for new managing consulting services, including contaminated sites and indoor air quality. Other duties include coordinating professional employee training, supervision of environmental professionals, media contact and public relations, marketing, corporate budgeting, and corporate strategic planning.

3) Honeywell, Inc., Minneapolis, Minnesota. January 1988 to May 1990.

   Principal Development Engineer

- Provided the lead role in the development and implementation of: 1) a practical indoor air quality diagnostics protocol for diagnosing the causes of indoor air quality problems and developing and implementing cost-effective solutions for indoor air quality (IAQ) problems in buildings, and 2) developing HVAC system design, operation, and maintenance procedures to prevent indoor air quality problems.

- Responsibilities included: 1) evaluating the technical application of various commercial IAQ products and HVAC control strategies; 2) assessing the impact of building components and assemblies on indoor air quality; 3) obtaining objective IAQ data following industry accepted standards (e.g., USEPA, ASTM, ACGIH, NIOSH, AIA, ASHRAE, and etc.); and 4) obtaining subjective data (e.g., occupant complaints, behavioral conditions, etc.) in evaluating problem buildings.

- Involved in evaluating over 75 buildings with indoor air quality problems and developing solutions to correct the problems.

- Assisted the USEPA and the Minnesota Legislature in the formulation of indoor air quality strategies and policies.

- Assumed the technical leadership role for IAQD upon the departure of Dr. James Woods in October, 1989.

- Responsible for the development and implantation of a 5-day professional training course to teach senior Honeywell technical employees the basic protocol for performing indoor air quality diagnostics. The goals of this training program were to provide a "value added" service to existing and potential Honeywell customers and to leverage additional "pull through" business of traditional Honeywell HVAC system product and service sales utilizing all potential IAQ market opportunities. Three training courses were provided with a total attendance of over 30 senior Honeywell technical participants attending.

- Assisted in the development of advanced indoor air quality sensors (i.e., VOC, carbon dioxide, and particulate sensors) that were integrated into existing Honeywell building control and energy management systems for the purpose of providing effective indoor air quality control along with traditional thermal and humidity control strategies.

- Provided the lead role in Honeywell IAQD marketing efforts (e.g., direct communication with Honeywell branch office sales and technical staff throughout the U.S. and Canada; developing marketing bulletins, sales manuals, and sales literature; public speaking at professional and trade seminars; publications in technical and trade journals; and radio and television appearances) to promote improved indoor air quality conditions for Honeywell clients using Honeywell products and services.

- Provided the lead role in the development and implantation of a two-1/2 day indoor air quality training course targeted for the general public for the purpose of educating the general public and potential Honeywell customers on the issues of indoor air quality and the services and products that Honeywell provides. Six courses were provided with a total attendance of over 120 participants representing all segments of the HVAC and industrial hygiene community.

- Developed and participated as an instructor in the University of Wisconsin-Madison, Engineering Professional Development Program on indoor air quality diagnostics procedures (on-going commitment).

- Participated in continuing professional educational courses in HVAC system design and operation, indoor air quality issues, and environmental issues.

4) Minnesota Pollution Control Agency (MPCA), St. Paul, Minnesota. July 1986 to November 1987.

Principal State Planner and Senior Engineer - Air Quality Division, responsible for developing and implementing federal and state air pollution standards review of industrial air pollution permits; coordinating MPCA IAQ policy development including coordination with other state, academic, and private organizations; supervision of professional staff; preparing IAQ policy proposals and budgets, including presentations to the State Legislature; professional networking; Chairman of the MPCA 1987 United Way Campaign; recipient of an Achievement Awarded for work performance in 1987.

5) Minnesota Department of Energy and Economic Development (DEED), Energy Division, St. Paul, Minnesota. March 1984 to August 1986.

Research Scientist, responsible for identifying and coordinating state research efforts in low energy use construction systems; indoor air quality/HVAC systems for residential and commercial buildings; developing and evaluating alternative construction technologies; contract management; public speaking; technology transfer to the building community; environmental planning; legislative planning; recipient of an Achievement Award for work performance in 1985.

6) Enterprise Capital Corporation, Denver, Colorado, January 1982 to March 1984.

Project Manager, responsible for architecture and engineering for residential and small commercial developments specializing in energy conserving design technologies; expert witness in litigation of underground waterproofing failures; underground waterproofing and construction consultant.

7) St. Paul Technical Vocational Institute (AVTI), St. Paul, Minnesota, December 1981 to March 1984 (part-time).

Adult Education Instructor, instructor in classes on application of Alternative Energy Resources, and Architectural Drafting technologies.

8) Underground Space Center, University of Minnesota, Minneapolis, Minnesota. January 1979 - December 1981.

Faculty Research Fellow and Assistant to the Director, responsible for research project management; building construction systems research and development; and information dissemination to the public and building community. Major emphasis included development of underground waterproofing systems, structural systems, and HVAC system design for energy efficient and below grade buildings; environmental and health effects of materials and construction practices. Taught engineering classes in heat transfer, waterproofing, structural systems HVAC systems and construction technology to undergraduate engineering and architecture students. Major Duties Included:

- Development of the text material on Waterproofing and Heating Ventilation and Air Conditioning for Earth Sheltered Residential Design Manual.
- Project Coordinator for the Earth Sheltered Demonstration Homes project to monitor and study the energy behavior of seven earth-sheltered residential buildings over a three year period.
- Project Coordinator to develop a self-teaching computerized course on earth-sheltered housing design or Control data Corporation PLATO courseware system. The six hour course was completed in December, 1979 and is available in all 76 Control Data Corporation Learning Centers, nationwide.
- Project Coordinator to develop a PLATO course for Control Data Corporation on heat transfer in underground buildings. Course material was completed in September, 1980.
- Project Coordinator to design a series of PLATO courses for Control Data Corporation. Project resulted in the development of sixteen possible PLATO courses and was completed in September, 1980.
- Technical advisor for a ½ hour documentary film on earth sheltered housing called "Grass on the Roof" which was distributed nationwide. Film was completed in December, 1980.
- Assisted in research project to develop underground thermal energy storage (TES) system for a Minneapolis home.

9) University Teaching Experience

- Two 6-week courses "A Practical Introduction to Earth-Sheltered Homebuilding" and "Special Problems in Earth-Sheltered Design and Construction Techniques", both offered Fall quarter, 1980 and 1981, and in Spring quarter, 1981 and 1982.
- I.C. 0254 Extension Division “Special Concepts in Housing”
- I.C. 0254 Extension Division "Special Concepts in Housing", Spring and Fall quarters, 1979, 1980 and 1981.

- I of T 5003 "Earth-Sheltered Space Use and Design", Fall quarter, 1981.
- Two 6-week courses "A Practical Introduction to Earth-Sheltered Homebuilding" and "Special Problems in Earth-Sheltered Design and Construction Techniques", both offered Fall quarter, 1980 and 1981, and in Spring quarter, 1981 and 1982.
- I.C. 0254 Extension Division "Special Concepts in Housing", Spring and Fall quarters, 1979, 1980 and 1981.
- I of T 5003 "Earth-Sheltered Space Use and Design", Fall quarter, 1981.

10) Other Experience at the University of Minnesota

Research Associate	Underground Space Center
June, 1978 - Dec., 1978	University of Minnesota
Research Assistant	Environmental Engineering Dept.
January, 1978 - May, 1978	University of Minnesota
Teaching Assistant	Environmental Engineering Dept.
Water & Air Quality Control	University of Minnesota
Resident Advisor (RA)	Housing Department
Sanford Resident Hall	University of Minnesota
September, 1976 - Dec., 1978	

11) Graduate Student, University of Minnesota, Minneapolis, Minnesota, September 1976 – January 1979

12) Fireman's Fund, American Insurance Companies, Minneapolis, Minnesota. July 1975 - September 1976.

Claims Representative, responsible for analysis and settling of property and casualty loss claims, and establishing procedures to minimize property and casualty loss control. Received technical training through the Insurance Training Institute of America in property loss adjusting; property loss control; and casualty loss adjusting; property loss control; and casualty loss adjusting.

TESTIFIED AND/OR DEPOSED AS AN EXPERT WITNESS IN THE FOLLOWING LEGAL PROCEEDINGS SINCE 1993

Prepared over 1,000 Forensic Evaluations and Expert Reports, including participation in the following legal proceedings:

Charlene Schubert v. Dave Gestach, and Gestach & Paulson (**Arbitration Testimony**) June 2, 2011.
Dawn L. Gagne, Esq. (952-546-8400) for the Defendants.
American Arbitration Association (AAA) Case No.: 65 527 00023 11, Minneapolis, Minnesota.
Dispute over quality of construction work for interior wood finish for a Residential structure.
Client File No.: 327/59135
epi File No.: I11-058

Scott W. Allen and Susan Allen v. Russell Klenz and Judith Klenz (**Trial Testimony)** May 14, 2011.
Todd C. Koebele, Esq. (651-227-9411) Murnane Brandt for the Defendant.
State of Minnesota County of Martin District Court/Civil Division, Fifth Judicial District, Court File No.: 46-CV-09-813 Personal Injury (Fall from roof during construction).
Client File No.: 60239
epi File No.: I08-751

Tamarind Limited Partnership v. Ulteig Engineers, Inc., et al, (**Mediation)** November 19, 2010.
Gregory M. Bistram, Esq. (612-977-8241) for the Defendant.
State of Minnesota County of Hennepin District Court, File No. 27-CV-10-19023. Judge Gary R. Larson.
Structural Design Defect Claim; Breach of Contract; Negligence.
Client File No.: 39840.2
epi File No.: I10-969

Charles and Jan Kinney v. State Farm Insurance (**Appraisal Testimony)** November 30, 2010.
Michelle Christensen, Esq. (651-227-9411) for State Farm.
Dispute of property loss value due to insured loss.
Client File No. 62258
epi File No. I09-793

David C. and Julie Bernier V. Benson-Thompson, Inc., et al, (**Trail Testimony)** September 30, 2010**.**

Debra Weiss, Esq. (612-347-9142) for the Defendant.
State of Wisconsin, Washburn County Court Case No. 08-CV-211.
Moisture Intrusion/Construction Defect Claim.
epi File No.: I09-893

David C. and Julie Bernier V. Benson-Thompson, Inc., et al, (**Deposition)** September 14, 2010**.**
Debra Weiss, Esq. (612-347-9142) for the Defendant.
State of Wisconsin, Washburn County Court Case No. 08-CV-211.
Moisture Intrusion/Construction Defect Claim.
epi File No.: I09-893

Schmit Brothers Construction, Inc. v. Joseph Roach and Jennifer Roach, (**Deposition)** May 24, 2010.
Ralph Mitchell, Esq. (612-338-5815) for the Defendants
Becker County District Court/Seventh Judicial District, File No. 03-CV-09-150.
Construction Defect Claim.
epi File No.: I09-867

Gretchen Grey vs. Streeter and Associates, Inc., et al (**Trial Testimony**) February 12, 2010.
Steve Sheridan, Esq. (612-332-0100) for the Defendant Streeter and Associates, Inc.
Moisture Intrusion/Construction Claim.
Hennepin County District Court, Fourth Judicial District, File No. 27-CV-08-23097 Judge: Janet N. Poston.
Client File No.: 10819-3
epi Project No. I08-682

Josslyn Weissman (Minor) vs. Clean Response, Inc. , et al (**Video Trial Testimony**) April 8, 2010.
Julian Janes, Esq. (612-831-5973) for the Defendant Clean Response, Inc.
Personal Injury Claim alleging Contractor negligence.
Hennepin County District Court, Fourth Judicial District, File No. 27-CV-08-28192 Judge: George McGunnigle.
epi Project No.: I09-814

Minnwest Bank, M.V. v. FTK Properties, Inc., et al (**Trial Testimony)** November 19, 2009.
Ralph Mitchell, Esq. (612-338-5815) for the Defendant.
Dispute over responsibility for costs associated with Retail Tenant Buildout.
Tenth Judicial District Court, County of Sherburne, Minnesota
Court File No.: 71-CV-08-284 Honorable Mary A. Yunker
epi I File No.: I09-887.

Mark Kinney v. Provesta Flavor Ingredients a/k/a/ Humko Specialty Powders, et al. (**Deposition)**
Gerald Bren, Esq. and Lucas Laasko, Esq. (612-216-0309) for the Defendant
Claim for Property Damage to leased commercial space
Dunn County, Wisconsin Court File No.: 07CVF306
Client File No.: 1556-278
epi Project No.: I07-650

Northland College vs. Davis Design, et al. (**Arbitration Testimony)**
Holly Newman, Esq. (612-305-1400) for Defendant
Claim for Property Damage for Alleged Defective Design
AAA File No.; 51-110Y00559-05; December 18, 2007
Client File No.: 91745-20
EPI Project No.: 2005-551

John Richardson v. Chris Lind Custom Home Contracting, LLC (**Arbitration Testimony)**
Tamara Novotny, Esq. (952-525-6939 for the Defendant
Claim for Property Damage for Alleged Defective Construction
Court File No.: 09-05-C-01773
EPI Project No.: 2006-835

Dolezal Creative Renovations v. Donaldson **(Trial Testimony**)
Kristine A. Kubes, Esq (612-338-0661) for the Plaintiff
Mechanics Lien and Claim for Defective Construction
Hennepin County District Court File No.: 27-CV-05-1744
EPI File No.: 2006-702

Noack v. Colson Construction, et al: (**Subpoena and Trial Testimony**)

Andy Marshall, Esq. (612-333-8829) for the Plaintiff
Claim for Property Damage due to Alleged Faulty Design and Construction.
Hennepin County Court File No.: 27-CV-06-2319
Plaintiff's File No.: 5422-1
EPI Project No.: 2006-734

Schultz v. Colson Construction, Inc. v. Trevor Foss d/b/a Trevor Foss Roofing et al. (**Trial Testimony**)
Siira B. Gunderson, Esq. (612-338-0755) for the Defendant Trevor Foss Roofing, Inc.
Claim for Property Damage due to Alleged Faulty Design and Construction of the roof system.
Hennepin County Court File No.: 27-CV-06-1683
Client File No.: 1400.329
EPI Project No.: 2005-520

Kotulas v. Druks (**Trial Testimony**)
Dawn L. Gagne, Esq. (952-525-6926) for the Defendant
Claim for Property Damage due to Alleged Faulty Construction resulting in mold damage.
Hennepin County District Court File No.: CT 05-015109 (Judge Tony N. Leung)
Client File No.: 12/52,583
EPI Project No.: 2006-791

Daniewicz v. Maxwell Homes, Inc. (**Deposition**)
David M. Dahlmeier (612-371-8515 for the Defendant
Claim for Property Damage due to Alleged Faulty Design and Construction of the structural system.
Ramsey County District Court File No.: C2-05-008426
Client File No.: 2620-98
EPI Project No.: 2006-699

Coliseum Project v. Albers Mechanical Services, Inc.(**Arbitration Testimony)**
James E. Blaney, Esq. (651) 602-2697 for the Defendant
Claim for Property Damage and Personal Injury due to Alleged Defective Design and Construction of the HVAC system and control system and resulting mold damage.
Defendant File Coliseum Project
EPI Project No.:2001

Trips, Inc. v. Yaggy Colby and Allman & Associates (**Mediation)**
Rob A. Stefonowicz, Esq. (612)-337-9645 for the Plaintiff
Claim for Property damage due to Alleged Faulty Design and Construction of the HVAC system and control system and resulting mold damage
File No.: 50011-131
EPI Project No.: 2003-776

Kraus-Anderson Construction v. New Mech Companies, et al.(**Arbitration Testimony)**
James L. Haigh, Esq. (952)-525-6943 for the Defendant
Claim for property damage due to Alleged Faulty Design and Construction of the HVAC system and control system and resulting mold damage.
File No.: 47,915/271
EPI Project No.: 2003-910

Minneapolis Chapter of the American Red Cross v. et al
Hennepin County District Court **(Deposition)**
Richard Morgan, Esq. (612) 672-3240 for the Plaintiff
Claim for Property Damage and Personal Injury of Alleged Negligent Design and Construction of the HVAC system and controls and resulting mold damage.
EPI Project No. 1996-990

Dr. Michael Peterman v. Curtis Green, AIA
Sue Halverson, Esq. for the Plaintiff
Claim for Property Damage for Alleged Negligent Design and resulting mold damage.
EPI Project No. 1993-535 (**Arbitration Testimony**)

Mark Larson v. American Seating, et. al.
Douglas County District Court No. 46,947/39
James L. Haigh, Esq. (952) 525-6943 for the Defendant

Claim for Personal Injury due to Alleged Defective Design
County of Douglas District Court File No.: 21-C0-01-000680 (**Deposition/Settlement)**
Claim No.: 46.947/39
EPI Project No. 2001-418

Veit Environmental Inc. v. Southern Minnesota Sugar Beet Cooperative (SMBSC)
Scott G. Knudson, Esq. (651) 223-6539 for the Plaintiff
Claim for Damages for Alleged Personal Injury from Legionnella Contamination
Renville County District Court Claim File No.: C1-01-349 (**Deposition/Settlement)**
EPI Project No. 2002-620

Cameo Homes, Inc. v. Kraus-Anderson Construction Co. and the City of East Grand Forks, Minnesota
Joseph G. Springer, Esq. (612)-492-7168 for the Defendant
Fredrikson & Byron, P.A.
Claim for Damages, Slander and Lost Income Due to Alleged Negligent Construction Management
United States District Court for the District of Minnesota (**Deposition/Settlement**)
Case No. 02-2894 (RHK/RLE)
EPI Project No.: 2003-873

Stone Arch Lofts v. New Mech Companies, Inc. et al. **(Arbitration Testimony**)
Dawn L. Gagne, Esq. (952) 525-6926 for the Defendant
Claim for Property Damage Due to Alleged Negligent Design and Construction of the HVAC system and controls resulting in mold damage.
File No.: 271/47,915
EPI Project No.: 2003-910

Gables at Christenson Crossing v. The Rottlund Company, Inc., et al.(**Trial Testimony**)
Doug J. McIntyre, Esq. (612) 371-8514 for the Defendant
Claim for Property Damage Due to Alleged Negligent Design and Construction
File Project No.: 1556-1
Anoka County District Court File No.: C8-02-6679
EPI Project No.: 2003-912

Kootenia Homes, Inc. v. Federated Insurance Company
Eric J. Strobel, Esq. (612-334-2670) for the Defendant
Claim for damage coverage under Contractors General Liability Coverage insurance
Hennepin County District Court (**Deposition**)

EPI 2004-207 Steven Erickson and Marilyn Erickson v. Wausau Homes, Inc. and Radcliffe Homes, Inc.
Mark A. Fonken, Esq. (651) 290-6512 for the Defendant
Claim for damages caused by alleged design and construction defects and resulting mold damage.
Fillmore County District Court (**Trial Testimony**)
File No. 31156(63)
EPI Project No.: 2002-659

Carter v. Reinhart
Michelle Christensen, Esq. (651-227-9411) for the Defendant
Claim for Property Damages due to Alleged Faulty Design and Construction and Failure to Disclose Defects prior to Sale of Property and resulting mold damage.
Hennepin County District Court **(Arbitration Testimony)**
File No.: 52670
EPI Project No. 2003-125

Javner v. Keen
Anissa M. Mediger, Esq. for the Defendant
Claim for Property Damages due to Alleged Faulty Design and Construction and Failure to Disclose Defects prior to Sale of Property and resulting mold damage.
Hennepin County District Court **(Arbitration Testimony)**
File No.: 52548
EPI Project No. 2003-898

David and Janice Ring v. Trevor Foss Roofing, et. al.
Joseph A. Nilan, Esq. (612-338-0755) for the Defendant
Claim for Property Damages due to Alleged Faulty Design and Construction and resulting mold damage.

Hennepin County District Court **(Mediation)**
File No.: 1400.283
EPI Project No. 2003-852

Steven Erickson and Marilyn Erickson v. Wausau Homes, Inc. and Radcliffe Homes, Inc.
Christianna L. Finnern, Esq. (651) 290-7415 for the Defendant
Claim for Property Damages due to Alleged Faulty Design and Construction and resulting mold damage.
Ramsey County District Court **(Trial Testimony)**
File No.: 31156 (63)
EPI Project No. 2002-659

Church of St. Andrew v. Vanman Companies Architects and Builders et. al.
John L. Greer, Esq. (320) 240-1400 for the Plaintiff
Claim for Property Damages due to Alleged Faulty Design and Construction and resulting mold damage.
Sherburne County File No.: 65 110 00132 00 **(Mediation)**
File No.: 260.01
EPI Project No. 1999-957L

Maynard and Susan Stavenau v. Sutton, Inc., et al.
Roger Kuehn, Esq. (612)-339-1400 for the Plaintiff
Claim for Property Damages and Personal Injury due to Alleged Failure
To Disclose Defects Prior to Sale of Real Property.
Hennepin County District Court File No.: 94-15757 (**Trial Testimony**)
EPI Project No.: EPI 1995-917

Robert W. Carlstrom, Inc. v. German Evangelical Lutheran St. Paul
John M. Riedy, Esq. (507)-625-6600 for the Plaintiff
Construction Lien Waiver Action
Scott County District Court File No.: 2001-01499 (**Subpoena and Trial Testimony**)
EPI Project No.: 2001-530

Brian and Kathy Rydzeski v. Gary and Jean Peterson et. al.
Michelle D. Christensen, Esq. (651) 227-9411 for the Defendant
Claim for Failure to Disclose Property Damage in a Real Estate Transaction and resulting mold damage.
Ramsay County District Court Claim File No.: 50335 (**Trial Testimony**)
EPI Project No. 2002-601

Joan Langlois v. University of Minnesota
Minnesota Department of Labor and Industry - Workers Compensation
Division (**Workers Compensation Hearing Testimony**)
Peter Pustorino, Esq. (952) 925-3001 for the Defendant
Claim for Bodily Injury due to Alleged Indoor Air Quality Problems in Workplace.
EPI Project No. 2001-345

Church of St Andrew v. Vanman Companies, Inc, et al
Carver County District Court, Case no. C4-98-1858 **(Mediation)**.
John Greer, Esq. for the Plaintiff
Claim for Property Damage and Loss of Use due to Alleged Negligent Design
and Construction and resulting mold damage.
EPI Project No. 1999-957

Waconia Faith Evangelical Lutheran Church v Vanman Construction Co.
Lawrence Hayes, Esq. (651) 222-2811 for the Plaintiff.
Claim for alleged defective design and construction and resulting mold damage.
Dakota County District Court (**Mediation**).
File no. 98MN0086
EPI Project No. 2001-414

Leech Lake Band of Ojibwe (Palace Casino and Hotel) v. Construction Analysis and Management, Inc
T. Chris Stewart, Esq. (612) 228 2251 for the Defendant (AAA File No.: 65-110-00234-00.
(**Arbitration Testimony**)
Claim for Property Damage, Bodily Injury and Loss of Use due to Alleged Negligent Construction
Management Services and resulting mold damage.
EPI Project No. 2001-433

Jeffery and Ann Sather v. Foam Products, et al
James L. Haigh, Esq. (952) 525 6943 for the Defendant (File no.: 45,332/278)
Hennepin County District Court (**Trail Testimony**)
Jury Trial for Claims for Property Damage, Personal Injury, Loss of Use and Business Loss due to Alleged Negligent Design and Construction and resulting mold damage.
EPI Project No. 2001-233

Stearns County, Minnesota v. Daniel Neubarth
Dan Eller, Esq. for the Defendant
Stearns County District Court - Criminal Division File no. KS-97-2417 (**Trial Testimony**)
Jury Trial for Two Counts of Negligent Homicide
EPI Project No. 1998-823

Burt v. Neubarth
Kenneth W. Dodge, Esq. for the Defendant (File no.: 52593-26)
Stearns County District Court - Civil Division File no.: C3-96-2506 (**Trail Testimony)**
Jury Trial for Two Counts of Wrongful Death and Bodily Injury
EPI Project No. 97-537

Super Valu Insurance, et al. v. Northland Contractors of Duluth; et al. v. Hoover Construction
Carlton County - Court File No. CT 97-007973 **(Deposition)**
Stephen P Kilgriff, Esq. for the Plaintiff
Steven Wilson, Esq. Foley and Mansfield File no. 1403-1
Claim for Property Damage and Loss of Use for alleged negligent design.
EPI Project No. 1998-694

Northwest Airlines Worker Compensation Hearing, Tampa, Florida
Determination Whether Alleged Indoor Air Quality Problems Were the Cause of Health Claims Filed by Six (6) Employees. (**Workers Compensation Hearing Testimony**).
EPI Project No. 1993-514

City of Le Sueur v. Roger Johnson, AIA
James Anderson, Esq. (507-665-3349) for the Plaintiff (**Arbitration Testimony**)
Property Damage Claim due to the Alleged Failure of a Swimming Pool Liner in an Indoor Pool.
EPI Project No. 1993-600

City of Le Sueur v. Roger Johnson, AIA
James Anderson, Esq. (507-665-3349) for the Plaintiff (**Arbitration Testimony**)
Property Damage Claim due to Alleged Negligent Design of an Indoor Pool Building Roof System.
EPI Project No. 1993-511

BOOKS, TECHNICAL PAPERS AND PROFESSIONAL AND TRADE JOURNAL ARTICLES AUTHORED

- HVAC System Commissioning - A Practical Approach; "Consulting-Specifying Engineer", Cahners Publishing, August, 1994.
- Lane, C. Sykora, C., Causes of Indoor Air Quality Problems in Buildings, AIHCE Annual Conference, Poster Session, Boston, Massachusetts, June 2, 1992.
- Lane, C., Physical Causes of Indoor Air Quality Problems in Commercial and Residential Buildings, First Annual IAQ Conference and Exposition, Tampa, Florida, April 30 - May 2, 1992
- Lane, C., Physical Causes of SBS, International Conference Quality of the Indoor Environment, Athens, Greece. April 28 - 30, 1992.
- Lane, C., et al., A Procedure to Identify "Zones of Maximum Potential Exposure in Commercial Buildings, "Proceedings: "Indoor Air 90", Toronto, Canada, July 29 - August 3, 1990.
- Lane, C. et al., Environmental Stressors and System Deficiencies Identified in Problem Office Buildings, Proceedings: Air and Waste Management Association (AWMA) Annual Conference, Pittsburgh, Pennsylvania, June 1990.

- Lane, C., et al., Environmental Stressors and System Deficiencies Identified in Problem Commercial Buildings, American Industrial Hygiene Conference, Orlando, Florida, May 13-18, 1990.

- Lane, C., HVAC Maintenance Procedures and Indoor Air Quality, "AIPE Facilities Management, Operations and Engineering", January/February 1990, pp. 11-14.

- Lane, C., The Impact of Energy Management Strategies (EMS) and HVAC Maintenance Procedures on Indoor Air Quality-Case Studies, "Proceedings: Florida West Coat IAQ Conference-ASHRAE", Clearwater, Florida, October 19-20, 1989.

- Lane, C., IAQ and Maintenance: Strategies for HVAC Contractors, "HVAC Product News," September, 1989, pp. 27-28.

- Lane, C., Woods, J.E., Bosman, T.A., Indoor Air Quality Diagnostic Procedures for Sick and Healthy Buildings, "Proceedings: IAQ '89: The Human Equation: Health and Comfort", American Society of Heating, Refrigerating, and Air-Conditioning Engineers, San Diego, California, April 17-20, 1989.
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- Rask, D.R., Lane, C.A., Resolution of the Sick Building Syndrome: Part II, Maintenance, "Proceedings: IAQ '89": The Human equation: Health and Comfort", American Society of Heating, Refrigerating, and Air-Conditioning Engineers, San Diego, California, April 17-20, 1989 (Reprinted in "ASHRAE Journal", July, 1989, pp. 54-56).

- Woods, J.E., Lane, C.A., Indoor Air Quality Issues: Air quality, Proceedings: Fifth Canadian Building and Construction Congress", Montreal, Canada, November 27-29, 1988.

- Lane, C., The Effect of Mechanical Ventilation Systems on Indoor Air Quality and Moisture Control in Residential Buildings: Two Case Studies, "Condensation and Moisture Related Problems in the Home," American Association of Housing Educators and Small Homes Council-Building Research Council, University of Illinois at Urbana-Champaign, January 1989.

- Lane, C., Oatman, L., Development of a Comprehensive Indoor Air Quality Program: The Minnesota Experience, "Indoor Air "87", West Berlin, August 17-21, 1987.

- Lane, C., Oatman, L., Home Indoor Air Quality Assessment, University of Minnesota Cold Climate Housing Information Brochure, January, 1988.

- Oatman, L., Lane, C., Mold and Mildew in the Home, University of Minnesota Cold Climate Housing Information Brochure, January, 1988.

- Lane, C., et al., Tri-State Homes: Preliminary Assessment of Moisture Problems, Air-Tightness and Air Quality, "Proceedings: Fifth Annual Energy Efficient Builders Association Conference", Minneapolis, Minnesota, April, 1987.

- Woods, J., Krafthefer, B., Rask, D., Lane, C., A Case Study of Three Dilution Methods for Dehumidification and Air Quality Control in Multi-Family Residences, "IAQ '86: Managing Indoor Air for Health and Energy Conservation", ASHRAE Conference, Atlanta, Georgia, April 20-23, 1986.

- Lane, C., Designing a House for your Climate: A Closer Look, "Popular Science Magazine", December, 1985.

- Woods, J., Krafthefer, B., Rask, D., Lane, C., Assessment and Control of Indoor Air Quality in A Superinsulated, Retrofit House, "Proceedings: CLIMA 2000", Copenhagen, Denmark. August, 1985.

- Lane, C., et al., Cooperative Indoor Air Quality Research Between Government and Industry - A Minnesota Case Study, "Proceedings: Indoor Air Quality in Cold Climates - Hazards and Abatement Measures", Air Pollution Control Association, Ottawa, Canada, April, 1985 (Reprinted in "C1B.86 Congress", International Council for Building Research Studies and Documentation, Washington, D.C., September 21-26, 1986).

- Lane, C., When Designing, Consider the Local Climate, Parts I and II, "Earth Shelter Living", September/October, 1984 and November/December, 1984. WEBCO Publishing

- Lane, C., Climate and Energy - Efficient Design "Fine Homebuilding", June/July, 1984, pp. 60-61 (Reprinted in "Earth Shelter Living", August/September, 1984. WEBCO Publishing)

- Lane, C., A Low Energy-Use Residential Multi-Family Project "Proceedings: American Society of Civil Engineers (ASCE) Conference", Atlanta, Georgia, May 14-18, 1984.

- Lane, C., Waterproofing Methods and Products: And E.S.L. Special "Earth Shelter Living", March/April, 1984, pp. 23-27, WEBCO Publishing (Reprinted in: "New England Builder", August, 1984).

- Regularly featured in "Earth-Shelter Living" Hot Line Column and as a guest editorial contributor, 1980-1984. WEBCO Publishing.

- Lane, C., Woods, J., The Superinsulation Demonstration Project "Proceedings: Superinsulation Forum and Conference and Exposition", April, May, 1981, No. 2, pp. 35-37. Taunton Press.

- Authored the chapters on Waterproofing and Heating, ventilation and Air Conditioning, for the Earth Sheltered Residential Design Manual, the Underground Space Center, Van Nostrand Reinhold Company, July, 1982.

- Lane, C., Underground Basics, published in "Popular Science", Nov., 1982, pp. 76-79. (Reprinted in Do-It-Yourself Yearbook, Times Mirror Magazine Book Division, 1984).

- Lane, C., Anderson, B., Earth Shelter II Conference, published by World of Concrete and Construction Magazine for distribution at conferences in Chicago, Portland, Phoenix, Pittsburgh and Orlando, October December, 1981.

- Lane, C., Five Selected Earth-Sheltered Buildings in Minnesota, "By Ggmastaren" (the Swedish Builder's Journal), December, 1981.

- Lane, C., Waterproofing Earth Sheltered Homes, "Fine Homebuilding", April, May, 1981, No. 2, pp. 35-37. Taunton Press

- Goldberg, L., Lane, C., A Preliminary, Experimental, Energy Performance Assessment of Five Houses in the MHFA Earth Sheltered Housing Demonstration Program "The Potential of Earth Sheltered and Underground Space", Proceedings of the Underground Space Conference and Exposition, Kansas City, Missouri, June 8-10, 1981, pp. 321-350. Pergamon Press, London, U.K.

- Lane, C., Frequently Asked Questions on Earth-Sheltered Housing "Underground Space", Vol. 4, No. 3, pp. 143-152. Pergamon Press, 1979. (Reprinted in: "Architecture Minnesota", March/April, 1980; "Log Home Builder", "Alternative Housing", February/March, 1981; "Concepts in Wood Design", May/June, 1981; referenced in "The Engineering Index - Energy Abstracts", Engineering Index, Inc., New York, NY, July, 1980, pp. 97; and Earth Shelter II Conference Proceedings, Chicago, IL, 1981, pp. 74-79).

- Subject Matter Expert for the course manual Earth Sheltered Housing Control Data Corporation Education Company, PLATO publication text book No. 76361407, May, 1980.

REPORTS PRODUCED UNDER CONTRACTS MANAGED

- Anderson, G., Soil Lead Contamination as a Result of Residential Sandblasting Minnesota Pollution Control Agency, June, 1987.

- Woods, J., et al., Dynamic Computer Simulation to Determine the Cost-Effectiveness of Various Thermal and Ventilation Systems in Minnesota's New and Existing Residential Construction Honeywell Physical Sciences Center, on contract, Toess, Inc., to edit the book Building Underground by Herb Wade, December, 1981.

- Woods, J., Final Report on the Beisang Low Energy Use House Research Project - Phase II, Honeywell Physical Sciences Center, on contract to the Minnesota Energy Division, July, 1985.

- Gronseth, R., et al., Indoor Air Quality and Moisture Control in Buildings, Department of Mechanical Engineering, University of Minnesota, on contract with the Minnesota Energy Division, July, 1985.

- Goldberg, L., The influence of Envelope Mass Flux on the Long Term Energy Consumption Predictions of Building Energy Simulation Programs in a Heating Climate, University of Minnesota, on contract with the Minnesota Energy Division, June, 1985.

- Green, A., Low-Heat-Loss Housing Demonstration Project Observations, Minnesota Department of Energy

and Economic Development, April, 1985.

EDITING

- Retained by Rodale Press, Inc., to edit the book Building Underground by Herb Wade, December, 1981.
- Retained by Van Nostrand Reinhold Company to review the book Subterranean Settlements and Housing by Dr. Gideon Golany, August, 1980.
- Retained by Garden Way, Inc. to review The Underground House Book by Stu Campbell, August, 1980.

SPEAKING ENGAGEMENTS

Served as a speaker or instructor at over 200 conferences and seminars regarding environmental, architectural, engineering, energy conservation, building construction, and indoor air quality issues in building design and construction:

- Indoor Air '90, Toronto, Canada, July 29 - August 3, 1990.
- Construction Law Section, Annual Meeting & Symposium, Multi-Family Construction Defect Litigation, Minnesota State Bar Association, Minneapolis, Minnesota, June 6, 2008.
- International Conference on Municipal Code Administration-Building Safety and the Computer, Winnipeg, Manitoba, Canada, September 24-28, 1989.
- Indoor Air Quality in Cold Climates - Hazards and Abatement Measures, Ottawa, Ontario, Canada, August, 1985.
- Cementa AB Convention, Stockholm, Sweden, November, 1980.
  USA 2007 International Association of Special Investigation Units Annual Seminar, Las Vegas, Nevada September 12, 2007.Minnesota Multi-Housing Association (MMHA) Seminar, Minneapolis, Minnesota, January 26, 2006.
- Solving Water Intrusion and Mold Problems in Minnesota, Lorman Educational Services, St. Paul, Minnesota, September 29, 2004.
- Building Code 101, Residential Construction Defect Claims, Minnesota State Bar Association CLE, May 24, 2004.
- Advances In Environmental Mold Issues In Minnesota, Lorman Educational Services, Minneapolis, Minnesota, October 29, 2003.
- The 21st Annual Real Estate Institute, November 21-22, 2003, St. Paul, Minnesota.
- National Air Duct Cleaners Association (NADCA), Eagan, Minnesota, September 19-20, 2003.
- Solving Water Intrusion and Mold Problems in Minnesota, Lorman Educational Services, St. Paul, Minnesota, May 15, 2003.
- When Mold Takes Hold, Minnesota State Bar Association, Continuing Legal Education, Minneapolis, Minnesota, April 9, 2003**.**
- Mold Litigation in Minnesota, Lorman Educational Services, Minneapolis, Minnesota, March 26, 2003.
- Solving Water Intrusion and Mold Problems in Minnesota, Lorman Educational Services, Duluth, Minnesota, March 20, 2003.
- Reliant Energy Spring Technology Conference, Earle Brown Heritage Center, Brooklyn Center, Minnesota, May 7, 2002.
- Rochester Minnesota Chapter of ASHRAE, Rochester, Minnesota, May 21, 2002.
- Solving Water Intrusion and Mold Problems in Minnesota, Lorman Educational Services, St. Paul, Minnesota, May 15, 2002.
- Solving Water Intrusion and Mold Problems, Lorman Education Services, Mpls., MN, April 24, 2002.
- Woodbury Homeowners Alliance Community Meeting, Woodbury, Minnesota, January 14, 2002
- Midwest Center of Occupational Health and Safety, University of Minnesota, St. Paul, Minnesota Conference for Health Care Professionals, December 3, 1998.
- Minnesota Chapter of International Association of Plumbing and Mechanical Officials (IAPMO), Champlin, Minnesota, August 11, 1998.
- Midwest Center for Occupational Health and Safety, Conference for Health Care Professionals, St. Paul, Minnesota, December 3, 1998.
- Minnesota Chapter of the International Association of Plumbing and Mechanical Officials (IAPMO), St. Paul, Minnesota, March 10, 1998.
- Unity Hospital Occupational Health Seminar, Fridley, Minnesota, June 3, 1998.
- MSOSH, Indoor Air Quality Course, St. Paul, Minnesota, February 5 - 6, 1998.
- MSOSH, Indoor Air Quality Seminar, St. Paul, Minnesota, December 15, 1997.
- 15th Annual Minnesota OSHA Seminar, University of Minnesota, Minneapolis, Minnesota, September 11, 1997.
- Minnesota State Bar Seminar, Construction Attorneys, Minneapolis, Minnesota, March 21, 1997.

- Minnesota ASHRAE, Minneapolis, Minnesota, March 25, 1997.
- Rochester ASHRAE, Rochester, Minnesota, February 12, 1997.
- Minneapolis BOMA Superintendent Association, Minneapolis, Minnesota, March 5, 1997.
- Independent School District #622, Facility O & M Training Seminar, Maplewood, Minnesota, November 11, 1996.
- 3M Company, 1996, Global Safety and Health Conference, Minneapolis, Minnesota, October 11 - 17, 1996.
- Johnson Controls, Inc., Customer Seminar, March 27, 1996, Minneapolis, Minnesota.
- 1996 Minnesota School Facility Manager's Association Seminar, Faribault, Minnesota, May 15, 1996.
- Iowa Association of Business and Industry, Cedar Rapids, Iowa, September 22, 1995.
- National Association of State Facility Administrators, 8th Annual Conference and Trade Show, St. Paul, Minnesota, June 17 - 21, 1995.
- Minnesota ASHRAE Seminar, Minneapolis, Minnesota, March 6, 1995.
- American Industrial Hygiene Association (AIHA) Upper Midwest Section, Minneapolis, Minnesota, February 16, 1995.
- Johnson Controls IAQ Seminar, Omaha, Nebraska, December 1, 1994.
- MCOSH Safety Series, University of Minnesota, November 3, 1994.
- Johnson Controls Users Group Seminar, Minneapolis, Minnesota, October 19, 1994.
- Minnesota Chapter ASHRAE, Minneapolis, Minnesota, October 22, 1994.
- Contractor's Information Group Seminar, Minneapolis, Minnesota, September 22, 1994.
- "24th Annual Health and Safety Series", Midwest Center for Occupational Safety and Health, Minneapolis, Minnesota, August 30, 1994.
- Minnesota AIA Professional Development Seminar, Minneapolis, Minnesota, June 23, 1994.
- MCOSH Asbestos Inspector Course, St. Paul, Minnesota, May 9, 1994; January 16, 1995.
- 41st Annual Professional Development Conference, Iowa Safety Council, (ISCI), Cedar Rapids, Iowa, April 14, 1994.
- Rochester Chapter of ASHRAE, Rochester, Minnesota, January 18, 1994.
- International Association of Plumbing and Mechanical Officials (IAPMO), St. Paul, Minnesota, December 7, 1993.
- Cambridge Hospital, Cambridge, Minnesota, November 1, 1993.
- AIPE Seminar, Toledo, Ohio, September 20, 1993.
- 3M Company Corporate Training Seminar, St. Paul, Minnesota, July 22, 1993.
- 1993 IARTEX Conference, Minneapolis, Minnesota, June 15, 1993.
- Johnson Controls IAQ Seminar, Minneapolis, Minnesota, June 3, 1993.
- Minneapolis Public Schools, Minneapolis, Minnesota, May 18, 1993.
- 40th Annual Professional Development Conference, Iowa Safety Council, Inc. (ISCI), Des Moines, Iowa, April 16, 1993.
- Minnesota Chapter of ASHRAE, Minneapolis, Minnesota, March 23, 1993.
- National Association of Power Engineers (NAPE), Minneapolis, Minnesota, March 16, 1993.
- MSAIS Building Connections Video Conference, Minneapolis, Minnesota, March 4, 1993.
- Minnesota Construction Specification Institute (CSI) Meeting, Minneapolis, Minnesota, February 15, 1993.
- Refrigeration Service Engineers Society (RSES) Meeting, Minneapolis, Minnesota, January 19, 1993.
- ICBO Annual Building Inspections Meeting, St. Paul, Minnesota, January 15, 1993.
- North Star Chapter, ICBO Meeting, Minneapolis, Minnesota, November 20, 1992.
- Minnesota AIA Meeting, Minneapolis, Minnesota, November 19, 1992.
- Fabyanske, Svoboda, Westra, Davis & Hart Law Seminar, St. Paul, Minnesota, July 9, 1992.
- Minnesota Bar Association CLE, Minneapolis, Minnesota, June 19, 1992.
- First Annual National Coalition for Indoor Air Quality (NCIAQ) Conference, Tampa, Florida, April 30 - May 2, 1992.
- Minnesota Environmental Expo-92, Minneapolis, Minnesota, April 23, 1992.
- American Academy of Allergy and Immunology, St. Paul, Minnesota, April 3, 1992.
- ASHRAE Educational Energy Seminar, Minneapolis, Minnesota, February 25, 1992.
- Midwest Center for Occupational Safety and Health, St. Paul, Minnesota, January 14, 1992.
- Gustavus Adolphus College, St. Peter, Minnesota, December 17, 1991.
- Mankato State College, Mankato, Minnesota, December 17, 1991.
- Minnesota ASHRAE, Minneapolis, Minnesota, December 10, 1991.
- St. Paul Building Code Department, St. Paul, Minnesota, December 12, 1991.
- Johnson Controls, Minneapolis, Minnesota, November 19, 1991.
- Owens Mechanical Services, Minneapolis, Minnesota, November 6, 1991.
- Northwest Airlines, Minneapolis, Minnesota, July 24, 1991.
- Environmental Site Assessment, Bismarck, North Dakota, May 31, 1991.
- Environmental Site Assessment, Pierre, South Dakota, May 21, 1991.
- MILE Minnesota Center for Continuing Legal Education, May 15-17, 1991.
- M.A. Mortenson Construction Company, May 10, 1991.
- Upper Midwest University Physical Plant Directors Conference, St. Paul, Minnesota, October, 1991.

- Minnesota Energy Council Seminar for Small Business, Minneapolis, Minnesota, March 25-26, 1991.
- Environmental Law Committee Presentation, Minneapolis, Minnesota, March 13, 1991.
- Twin Cities Chapter of BOMA, March 6, 1991.
- Minneapolis Downtown Council, Minneapolis, Minnesota, February 27, 1991.
- Planmark Design, Eden Prairie, Minnesota, February 25, 1991.
- Interior Building Design Seminar, University of Minnesota, Minneapolis, Minnesota, February 12, 1991.
- Georgia Tech Annual Indoor Air Quality Symposium and Workshop on Building Assessment, Atlanta, Georgia, February 6, 1991.
- Midwest Center for Occupational Safety and Health, U of M, Earle Brown Center, Minneapolis, Minnesota, January 14, 1991.
- Minneapolis/St. Paul Chapter IFMA, Environmental Issues, January 9, 1991.
- Minnesota School Physical Plant Engineers Conference, Minneapolis, Minnesota, December 11, 1990.
- Marathon County Waste Conference, Wausau, Wisconsin, December 6, 1990.
- Buildings 2000: The Globalization of Intelligent Buildings, New York, New York, October 31, 1990.
- Minnesota Energy Council, Minneapolis, Minnesota, October 17, 1990.
- University of Wisconsin-Madison, Engineering Professional Development, Madison, Wisconsin, September 12-13, 1990.
- International Facilities Management Association (IFMA) Regional Seminar on Indoor Environmental Quality, Milwaukee, Wisconsin, May 11, 1990.
- Twin Cities Chapter of ASHRAE Meeting, Minneapolis, Minnesota, May 8, 1990.
- 48th Annual Course in Allergy and Clinical Immunology, Department of Medicine, University of Minnesota, Minneapolis, Minnesota, April 19, 1990.
- Dade County School Districts IAQ Seminar, Miami, Florida, April 6, 1990.
- Alaska Craftsman Home Program, Inc., Juneau, Alaska, February 17, 1990.
- Association of University Facilities Managers, Philadelphia, Pennsylvania, January 24, 1990.
- Midwest Center for Occupational Health and Safety, St. Paul, Minnesota, January 3-5, 1990.
- BriteTech™ International Inc. Franchise Training Seminar, Atlanta, Georgia, June 4-6, 1990, April 23- 25, 1990, February 12-14, 1990, and November 28-29, 1989.
- Cincinnati Chapter of ASHRAE Meeting, Cincinnati, Ohio, November 14, 1989.
- 1989 Energy Auditors Training Seminar, Minnesota Department of Public Service, Alexandria, Minnesota, October 27, 1989.
- Florida West Coast Chapter of ASHRAE, Clearwater Beach, Florida, October 19, 1989.
- Indoor Air Quality, The Department of Engineering Professional Development, College of Engineering, University of Wisconsin-Madison, and the NTU Satellite Network, Madison, Wisconsin, September 28-29, 1989.
- Honeywell Annual Sales Distributors Meeting, Golden Valley, Minnesota, August 24, 1989.
- 1989 Annual Meeting of the National Association of State Directors of Administration and General Services, Burlington, Vermont, August 16, 1989.
- Air and Waste Management Association, APCA Conference, Anaheim, California, June 25-30, 1989.
- American Lung Association of Minnesota, Minneapolis, Minnesota, May 2, 1989.
- IAQ '89 Conference, San Diego, California, April 17-20, 1989.
- University of Wisconsin - Madison, Engineering Professional Development, February 13-15, 1989.
- Honeywell Technical Training Program, Honeywell, Minneapolis, Minnesota, December 12, 1988, December 5, 1988, and November 9, 1988.
- University of Wisconsin - Madison, Engineering Professional Development, June 20-22, 1988.
- University of Minnesota, Extension Engineering, May 23, 1988.
- Minnesota Department of Health (MDH) March 4, 1988.
- Upper Midwest Section International Heating and Cooling Association, Minneapolis, Minnesota, November, 1987.
- American Association of Housing Educators, Newport, Rhode Island, November 2-3, 1987.
- University of Wisconsin - Madison, Engineering Professional Development, October 26-28, 1987.
- Minnesota Weatherization Advisory Group, Minneapolis, Minnesota, August, 1987.
- Hennepin County Builders Association, Minneapolis, Minnesota, June, 1987.
- Chisholm and Duluth, Minnesota, University of Minnesota-Extension, April, 1987.
- First Congress on Housing Technology, St. Paul, Minnesota, April, 1987.
- Energy efficient Builders Association, Minneapolis, Minnesota, February 20, 1987.
- St.Thomas Academy, St. Paul, Minnesota, November, 1985 and 1986.
- "Moisture and Indoor Air Pollution in Residences" University of Wisconsin-Extension, Madison, Wisconsin, November, 1985.
- Ramsey County Community Action Program, training session, St. Paul, Minnesota, October, 1985 and 1986.
- University of Minnesota, Department of Geology, Graduate Student Seminar.
- Fargo/Moorhead Builders Association, Moorhead, Minnesota. February, 1985.

- Minnesota Power, Duluth, Minnesota. January, 1985.
- 1984 CLEO Energy Update Conference, Minneapolis, Minnesota. December 1984.
- Second Annual Superinsulation in Housing Conference, Rochester, Minnesota. April, 1984.
- University of Wisconsin, Madison, Wisconsin. September, 1981.
- University of North Dakota, Wahpeton, North Dakota, September, 1981.
- University of North Dakota, Jamestown, North Dakota, September, 1981.
- University of North Dakota, Devils Lake, North Dakota, September, 1981.
- South Dakota Energy Agency, Rapid City, South Dakota, September, 1981.
- University of North Dakota, Grand Forks, North Dakota August, 1981.
- University of North Dakota, Minot, North Dakota August, 1981.
- University of North Dakota, Dickinson, North Dakota August, 1981.
- University of North Dakota, Williston, North Dakota August, 1981.
- University of North Dakota, Bismarck, North Dakota August, 1981
- University of Wisconsin, Madison, Wisconsin October, 1982
- World of Concrete Conference, Pittsburgh, Pennsylvania, December, 1981.
- World of Concrete Conference, Orlando, Florida, December, 1981.
- World of Concrete Conference, Portland, Oregon, November 1981.
- South Dakota Energy Agency Conference, Sioux Falls, South Dakota November 1981.
- World of Concrete Conference, Phoenix, Arizona, November, 1981.
- South Dakota Energy Agency Conference, Rapid City, South Dakota, October, 1981.
- World of Concrete Conference, Chicago, Illinois, September, 1981.
- Kansas City, Missouri, June, 1981.
- St. Paul, Minnesota, May, 1981.
- Northern Indiana AIA Conference, Goshen, Indiana, May 1981.
- Kalamazoo Nature Center, Kalamazoo, Michigan, March, 1981.
- Bemidji, Minnesota, February, 1981.
- University of Wisconsin, Madison, Wisconsin, January, 1981.
- St. Paul, Minnesota, April, 1981.
- Duluth, Minnesota, January, 1981.
- Minnesota Energy Agency "Energy Expo", March, 1979 and 1980.
- St. Paul, Minnesota, November, 1980.
- University of Alabama, Birmingham, Alabama, October, 1980.
- Willmar, Minnesota, October, 1980.
- Grand Rapids, Minnesota, October, 1980.
- Traverse City, Michigan, July, 1980.
- Fort Collins, Colorado, July, 1980.
- "Annual Homemakers" Conference, Purdue University, Lafayette, Indiana, June, 1980.
- Kalamazoo Nature Center, Kalamazoo, Michigan, March, 1980.
- Portland, Oregon, March, 1980.
- Brainerd, Minnesota, February, 1980.
- Colorado Springs, Colorado, January, 1980.
- Minneapolis, Minnesota, November, 1979
- Utah Energy Office, Salt Lake City, Utah, November, 1979.
- Austin, Minnesota, September, 1979.
- Rushford, Minnesota, June, 1979.
- Atlanta, Georgia, June, 1979.
- Amherst, Massachusetts, June, 1979.
- Omaha, Nebraska, May, 1979.
- Minneapolis, Minnesota, April, 1979.
- Eastern Washington University, Cheney, Washington, March, 19779.
- Minneapolis, Minnesota, March, 1979.
- Grand Rapids, Minnesota, February, 1979.
- Detroit Lakes, Minnesota, February, 1980.
- Rushford, Minnesota, January, 1979.
- Iowa Solar Energy Center, Mason City, Iowa, December, 1979.

TELEVISION, RADIO, AND NEWSPAPER APPEARANCES, INCLUDING:

Television

- WCCO, Minneapolis, Minnesota, November 6, 2011.
- KARE, St. Paul, Minnesota, November 20, 1998.
- KARE, St. Paul, Minnesota, November 19, 1998.
- KSTP, St. Paul, Minnesota, August 5, 1998.
- WCCO, Minneapolis, October 18, 1996.
- KARE, Minneapolis, October 18, 1996.
- KSTP, Minneapolis, October 18, 1996
- WCCO "Dimension", Minneapolis/St. Paul, December 3, 1990.
- USA Today, Washington DC, Monday, 12/11/89.
- Carlson Marketing Inc. (educational video), Minneapolis, Minnesota, January, 1989.
- KSTP, St. Paul, Minnesota, May and June, 1987.
- WDAZ TV Devils Lake, North Dakota, September, 1981.
- KXMB TV Bismarck, North Dakota, August, 1981.

- KUMC TV Williston, North Dakota, August, 1981
- KXJB TV Fargo, North Dakota, August, 1981.
- TV News Interview, Duluth, Minnesota, January, 1981.
- TV News Special, Purdue, Indiana, June, 1980.
- KSTP TV Today Show, St. Paul, Minnesota. 1980.

Radio

- KRBI Radio, Le Sueur, Minnesota, April 28, 1992.
- WCCO Radio, Minneapolis, Minnesota, March 1989.
- Minnesota Public Radio, Minneapolis, Minnesota, August, 1986.
- KSTP Radio, St. Paul, Minnesota, May, 1985.
- KFGO Radio, Fargo, North Dakota, October, 1981.
- KODJ Radio, Jamestown, North Dakota, September 1981.
- WHRT Radio, Minot, North Dakota, August, 1981.
- WAYL Radio, Minneapolis, Minnesota, February, 1980.

Newspaper/Magazine

- St. Paul Pioneer Press, May 19, 2002.
- Minneapolis Star and Tribune, January 30, 1998.
- Minneapolis Star and Tribune, October 13, 1997.
- Minneapolis Star and Tribune, August 10, 1997.
- West Central Tribune, Minnesota, February 6, 1997.
- 'The Air Conditioning, Heating and Refrigeration News', November 25, 1996, pp. 1, 2.
- Minneapolis Star Tribune, October 18, 1996.
- "Real Estate Dispute Focus", Fredrikson & Byron, January, 1992.
- "Indoor Pollution News", August 9, 1990.
- "Air Conditioning and Heating and Refrigeration News" May 14, 1990, pp. 33.
- "Land, Air, Water", Fagre and Benson Law Firm, Minneapolis, Minnesota, Summer 1990.
- "Nation's Business", February, 1990, pp. 46-47.
- "HVAC Product News," November, 1989, pp. 27-28.
- "Air-Conditioning, Heating and Refrigeration News" November 13, 1989.
- "Fine Homebuilding", November, 1989.
- "Fine Homebuilding" February/March, 1989.
- "Minneapolis St. Paul" May, 1987.
- "Solar Age", September, 1985.
- "1985 Minnesota Parade of Homes Edition", August, 1985.
- "Air Conditioning and Heating and Refrigeration News", August, 1985.
- "RSD" September, 1985.
- "ASHRAE Journal", June, 1985.
- "Air Pollution Control Association Journal", June, 1985.
- "American Health Magazine", June, 1985.

HONORS AND OTHER ACTIVITIES

Biography listed in Marquis Who's Who in the Midwest, 1990 to present editions.
Judge in the 2010 National Engineers Week Future City Competition™-Minnesota Region for Scale Models and Oral Presentations, University of St. Thomas, St. Paul Campus, January 23, 2010.

Club Architect and Engineer, Oakdale Gun Club, Lake Elmo, Minnesota, 1996 to 2005.

President, Church Pines Estates Townhouse Association, 1992 to 1993 (12 Units).

Vice President and Board Member, Lake Place Homes Condominium Association, 1981-1982 (192 Units).

Honorary Scholarship, 1971, University of Minnesota School of Architecture.

Active SCUBA Diver since 1971 and underwater photographer since 1976. Placed first in the 1981, and third in the 1983 Professional Association of Diving Instructors (PADI) Local Underwater Photography Contests.

Firearms Recreational Target Shooting.

Member, Academy of Model Aeronautics (AMA); Anoka County Radio Control Club, Inc. (3125)

Amateur Limnologist.

Amateur Radio Extra License. Call Sign KC0YDM.

REFERENCES

Personal references are available upon request.