

# Jerry S. Dahl, PE

## Forensic Engineering Expertise

### Mechanical Failure

Over 25 years of investigation of losses to determine root cause of mechanical failure, including industrial accidents, explosions, appliances, HVAC equipment, plumbing, fireplaces and auxiliary heating appliances, fire suppression systems, and vehicle accident reconstruction analysis.

## Qualifications & Training

- Investigating Natural Gas Systems, IAAI, CFI Trainer.net, April 2025
- Ethics and the Fire Investigator, IAAI, CFI Trainer.net, April 2025
- Residential Natural Gas Systems, IAAI, CFI Trainer.net, April 2025
- Fundamentals of Residential Building Construction, IAAI, CFI Trainer.net, April 2025
- Investigating Motor Vehicle Fires, IAAI, CFI Trainer.net, April 2025
- Ethical Duties Beyond the Fire Scene, IAAI, CFI Trainer.net, August 2024
- Commercial Kitchen Fires 1: Fundamentals, IAAI, CFI Trainer.net, August 2024
- Motor Vehicles: The Engine and the Ignition, Electrical, and Fuel Systems, IAAI, CFI Trainer.net, August 2024
- Motor Vehicles: Transmission, Exhaust, Brake, and Accessory Systems, IAAI, CFI Trainer.net, August 2024
- Evidence Examination: What Happens at the Lab?, IAAI, CFI Trainer.net, August 2024
- Introduction to Solid State Lighting Final Exam, MR1016, CPE Solutions, LLC, Webinar, March 2022
- An Introduction to Water Sampling and Testing of Water Systems Final Exam, PG888 CPE Solutions, LLC, Webinar, March 2022
- Introduction to Petroleum Fuel Facilities: Pipelines and Ground Fueling Facilities Final Exam, PG908, CPE Solutions, LLC, Webinar, March 2022
- Sewage Contamination: Microbiology, Health Risks and Remediation, eurofins Online Education Program, January 2022
- Flow Measurement in Pipes and Ducts, PDHDirect, July 2021
- Lithium-Ion Battery Fires, International Association of Arson Investigators (IAAI), June 2021
- Introduction to Collision Analysis: Data Collection, Documentation and Analysis Techniques. Nederveld, Inc., September 2020
- Deposition and Court Testimony, National Academy of Forensic Engineers (NAFE), August 2020
- Video Depositions, National Academy of Forensic Engineers (NAFE), August 2020
- Evidence Handling, National Academy of Forensic Engineers (NAFE), August 2020
- Forensic Engineering CV Preparation, National Academy of Forensic Engineers (NAFE), August 2020
- Daubert Hearing from Hell, National Academy of Forensic Engineers (NAFE), August 2020
- Credibility and Persuasion, National Academy of Forensic Engineers (NAFE), August 2020
- An Intro to Prime Movers for Auxiliary Power Systems – PG156, September 2019
- The Molasses Flood of 1919 and Other Ethical Failures in Engineering Course Overview – MR1001, September 2019

- An Introduction to Fire Protection Engineering for Buildings – PG114, September 2019.
- An Intro to Domestic Wastewater Treatment Final Exam – PG111, September 2019
- An Intro to Drainage Pipe Strength Cover and Bedding Final Exam - PG843, September 2019
- An Intro to Water Sampling and Testing of Water Systems Final Exam – PG888, September 2019
- HVAC – Hydronic Systems Final Exam, CPE Solutions, LLC, December 2018
- Mechanical Science – Valves Final Exam, CPE Solutions, LLC, December 2018
- An Introduction to Inspection of Boilers and Unfired Pressure Vessels, CPE Solutions, LLC, October 2018
- Ethical issues in Forensic Engineering, CPE Solutions, LLC, October 2018
- Preventing Mold Related Problems in the Indoor Workplace, CPE Solutions, LLC, October 2018
- Mechanical Forensic Engineering, January 2016, HalfMoon Education, Inc.
- Arc Mapping Basics, December 2010, CFI Trainer
- Physical Evidence at the Fire Scene, December 2010, CFI Trainer
- Asbestos and Lead Awareness, May 2010, MIOSHA Training Institute
- Scientific Method for Fire and Explosion Investigation, July 2009, CFI Trainer
- Documenting the Event, May 2009, CFI Trainer
- Introduction to Evidence, May 2009, CFI Trainer
- Understanding Fire Through the Candle Experiments, May 2009, CFI Trainer
- Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems, February 2009, National Fire Protection Association
- IAQA Certified Indoor Environmentalist Course, September 2008, Indoor Air Quality Association
- Gas/Oil Service & Appliances, October 2007, The Institute of Fire Science
- Diagnosing and Mitigating IAQ Problems, October 2007, RedVector
- Fire Safety Design: Egress & Extinguishing Systems, September 2007, RedVector
- Building Pathology: An Introduction, September 2007, RedVector
- Compressed Air Systems Basics, August 2007, RedVector
- Quality Management Introduction, August 2007, RedVector
- Conflict Resolution: The Principles of Evidence, August 2007, RedVector
- Concrete 1: Evaluation and Causes of Damage, August 2007, RedVector
- Vehicle Accident Reconstruction Methods, December 2006, Society Automotive Engineering
- Performed product failure analysis on electric and gas appliances
- Performed vehicle accident reconstruction analysis
- Performed engineering aspects related to failure investigation and design review
- Created a design suite of 13 design control procedures compliant to ISO 13485
- Performed static and dynamic analysis of structures using finite element and analysis software
- Generated summary reports of test results and recommendations for product changes and improvements
- Created supporting documentation and reports for testing of non-metallic composite materials and structures
- Generated functional test protocols and performed both functional and performance testing of drug delivery devices
- Performed professional and managerial duties as a specialty contractor in conservation of monumental art and historical structures
- Provided production assistance in troubleshooting component and process issues for parenteral products

- Performed quality engineering aspects of injection molded plastic components for medical devices
- Responsible for qualification of new molds and quality issues related to incoming components
- Performed dimensional verification and process qualification of injection molded components
- Medical device development, aseptic filling and processing equipment identification and design, physical testing and evaluation
- Designed and developed drug delivery devices made of injection molded plastic components, and associated fixturing for processing
- Equipped a device development laboratory with testing equipment including tension/compression machines, high-speed video equipment, force measurement and recording systems, and a non-contact vision coordinate measuring machine
- Designed brake components for OEM automotive and truck systems
- Specified and sourced formulation and aseptic filling equipment for pilot scale production from US and European vendors
- Assisted in specifying, acquiring, and operating an inert/aseptic environment application of barrier technologies

## Education

Master of Science in Mechanical Engineering  
Washington University, St. Louis, MO  
1983

Bachelor of Science in Mechanical Engineering with specialty in Materials Science  
Washington University, St. Louis, MO  
1978

Bachelor of Arts in Mathematics and Physics  
Augustana College, Sioux Falls, SD  
1977

## Licenses & Certifications

PE - Professional Engineer  
Licensed by the State of Michigan - Number 6201036213  
Licensed by the State of Missouri - Number 020585  
Licensed by the State of South Dakota - Number 13579  
Licensed by the State of Illinois - Number 062.042562

## Employment History

Senior Forensic Engineer  
Nederveld, Inc.  
2006 – Present

Senior Principal Scientist, Engineer  
Pfizer Inc., Kalamazoo, MI  
2000 – 2006

Quality Engineer  
Meridian Medical Technologies, St. Louis, MO  
1996 – 2000

Research Scientist  
 Meridian Medical Technologies, St. Louis, MO  
 1993 – 1996

Vice President of Operations  
 Washington University Technology Associates, St. Louis, MO  
 1987 – 1993

Manager of Engineering Projects  
 Washington University Technology Associates, St. Louis, MO  
 1983 – 1987

Design Engineering Manager  
 Failure Analysts and Consulting Technical Services Inc., St. Louis, MO  
 1982 – 1983

CAD Engineer  
 Washington University Technology Associates, St. Louis, MO  
 1980 – 1982

Test/Design Engineer  
 Wagner Electric Corporation, St. Louis, MO  
 1979 – 1980

Associate Engineer  
 McDonnell Douglas Aircraft Company, St. Louis, MO  
 1978 – 1979

## Professional Affiliations

Member: National Society of Professional Engineers  
 Member: National Academy of Forensic Engineers  
 Member: American Society of Mechanical Engineers

## Educational Presentations

"Panel Discussion: Needle-Free Drug Delivery," The Center for Business Intelligence Seminar, Emerging Technologies and Partnerships in Drug Delivery, Crowne Plaza Philadelphia, Philadelphia, Pennsylvania, April 27 – 28, 2005 (Jerry Dahl/Pfizer, Inc., Jonathan Rigby/Aradigm, Peter Sadowski/Anteres Pharma)

"Case Study: Implementing Patient Loaded Autoinjector as Product Enhancement," Pharmaceutical Education Associates Seminar, *Profit from the Growing Self-Injectables Market with Innovative Planning and Design Strategies*, Sheraton University City Hotel, Philadelphia, Pennsylvania, November 15 – 16, 2004

"A Case History: The Application of a Low Oxygen Environment to Barrier/Isolation Technology," *International Society for Pharmaceutical Engineers, Midwest Chapter Winter Meeting*, Airport Hilton Hotel, St. Louis, Missouri, February 28, 1996 (Jerry Dahl, Don Ferry, Jeri Tumulty)

"A Case History: The Goddess of Liberty," *Association for Preservation Technology, 1986 Annual Conference*, Driskill Hotel, Austin, Texas, October 1 – 4, 1986 (Jerry Dahl, Patrick Rice, Phoebe Weil)

## Expert Witness Experience

### Depositions

March 2024

Donald L Reed vs. River's Edge Foundry LLC et al  
Expert Witness for Donald Reed on behalf of von Briesen & Roper, SC  
Rock County, Wisconsin, Circuit Court, Case No. 19 CV 402

March 2022

Eric A Bujak and Sondra Bujak vs Corrigan Oil Co and Corrigan Propane LLC, Hurricane Products, Inc. and Burners, Inc.

Expert Witness for Corrigan Oil Co on behalf of Thomas R. Termaat, Foster Swift and Collins

State of Michigan, Genesee Circuit Court, Case No. 18-110834-NO

December 2021

Natnael Haile, Individually and as Administrator of the Estate of Mulumebit Dejene, et al vs Detmer & Sons, Inc. et al

Expert Witness for Detmer & Sons, Inc. et al

Montgomery County, Ohio, Civil Division, Case No. 2018 CV 06002

November 2021

Icarus Holdings 2, LLC vs Amguard Insurance Company

Expert Witness for Amguard Insurance Company

United States District Court, Northern IL, Eastern Division, Case No. 1:20-cv-04334

November 2021

Kevin Hackett vs Shelton Heating & Cooling, Inc., Jerry Shelton, Sr.

Expert Witness for Auto Owners on behalf of The Running Wise Law Firm

State of Michigan, Circuit Court for the County of Osceola, Case No. 19-15528-CK

September 2021

Gregory Logas and April Logas vs Memberselect Insurance Company

Expert Witness for Memberselect Insurance (AAA)

Circuit Court for the County of Oakland, Case No. 20-183526-CK

February 2021

Thomas C. Lewis and Estate of Kenith Clyde Lewis (deceased) vs Memberselect Insurance Company

Expert Witness for Memberselect Insurance (AAA)

Circuit Court for the County of Wayne, MI, Case No. 20-00714CK

January 2021

Home-Owners Insurance Company, as Subrogee of Grand Rapids Market Avenue Place, LLC and Grand Rapids Market Place, LLC vs The Viking Corporation

Expert Witness for Home-Owners Insurance Company

Circuit Court for Kent County, MI, Case No. 20-04625-CBB

November 2020

Michael Hamame vs DTE Energy/Kaltz Excavating

Expert Witness for Amerisure/Kaltz Excavating on behalf of Harvey Kruse, P.C.

Case No. 2019-177829-CZ

October 2020

Debbie Ewing vs Wise Heating and Cooling, A Michigan Corporation, and Alpena Supply Company, A Michigan Corporation, dba Great Lakes Supply

Expert Witness for Richard Bachelder, Attorney for Wise Heating and Cooling.

Case No. 19-4501-NO

September 2020

Safeco Insurance Company a/s/o Margaret St. Peters vs SLR Plumbing and Sewer

Expert Witness for Safeco

Case No. 19-014842-CB

July 2020

Donna Wall vs Michigan Insurance Company

Expert Witness for Michigan Insurance Company

Case No. 19-1289-CB

May 2020

State Farm Fire and Casualty vs Hearth & Home Design Center; Hearth Appliance

Expert Witness for State Auto Insurance

Case No. 19-174-NZ

February 2020

Ganas vs MemberSelect

Expert Witness for MemberSelect on behalf of Moblo Fleming PC

Case No. 19-007837-CK

August 2019

Stephanie Wang vs Allstate Indemnity Company

Expert Witness for Allstate Indemnity Company on behalf of Condon & Cook, LLC.

Case No. 16 CH 129

July 2019

PF3 Paint Supply, a Michigan Corporation, vs Lee's Fire Protection, LLC, A Michigan Limited Liability Company

Frankenmuth Mutual Insurance Company a/s/o PF3 Paint Supply, Inc. vs Lee's Fire Protection, LLC, A Michigan Limited Liability Company

Expert Witness for Frankenmuth Mutual Insurance Company on behalf of Cozen O'Connor

Case No. 2018-166199-CB and Case No. 2018-170170-CB

December 2018

Jesse Austin, Samantha Austin vs Mark's Tire, Inc.

Expert Witness for Mark's Tire, Inc. on behalf of Thomas Cooper

Chippewa County Circuit Court, Case No. 16-14420 NO

September 2018

Michigan Insurance Company a/s/o GL Rentals, Inc. vs Grand Rapids Fire Protection, Inc.

Expert Witness for Michigan Insurance Company on behalf of Reisinger Law Firm, PLLC

Ottawa County Circuit Court, Case No. 17-5167-NZ

August 2018

Farm Bureau Mutual Insurance, Company of Michigan a/s/o New Flevo Dairy, Inc. vs CNH Industrial America, LLC d/b/a New Holland Agriculture

Expert Witness for Farm Bureau Mutual Insurance on behalf of Coretti Law Firm, PLLC  
Eastern District Court of Michigan, Case No. 2:17-CV-14044-BAF-EAS

June 2018

Madison District Public Schools v MASB-SEG Property/Casualty Pool, Inc.  
Expert Witness for Madison District Public Schools on behalf of McCray Law Office, PLLC  
Oakland County Circuit Court, Case No. 2017-159061-CK

October 2017

Yvonne White, Personal Representative of the Estate of Francis Howard Walters,  
Deceased vs Brian David Wangler, an individual, & Hodgins Asphalt Paving, Inc.  
Expert Witness for Brian Wangler on behalf of Freel, PC  
Ogemaw County Circuit Court, File No. 16-650049-NI

August 2017

State Farm Fire and Casualty Company a/s/o Somerset Plastic Surgery, PLLC; Somerset  
Plastic Surgery Realty LLC; Michael J Busuito, MD, PC; Michael S Meininger, MD, PC;  
Pravin P Puri, MD, PC; and Andrew K Gavagan MD, PC, vs Arbor Inspection Services,  
LLC; Troy Center Professional Building Association; and Guy Hurley, LLC  
Expert Witness for State Farm Fire and Casualty on behalf of Kreis, Enderle, Hudgins &  
Borsos, PC  
Oakland County Circuit Court C.A. No. 2016-156216-CB

May 2017

Devendra Aurora and Shobha Aurora vs Liberty Insurance Corporation  
Expert Witness for Liberty Insurance Corporation on behalf of Plunkett Cooney PC  
Oakland County Circuit Court, Case #17-157609-CK

January 2017

Edgar Andrade and Donatella Gerulewicz vs Allstate Indemnity Company  
Expert Witness for Allstate Indemnity Company on Behalf of Patrick, Johnson & Mott PC  
Eastern District Court of Michigan, Case #2:16-CV-12665

December 2016

Auto Club Group Insurance Company a/s/o John Morris and Michelle Morris vs Home  
Appliance Mart, Inc. dba Big George's Home Appliance Mart, Inc. or Big George's Audio  
Video or Big George's and Chris Armbruster and BJ's Heating & Cooling  
Expert Witness for BJ's Heating & Cooling on Behalf of Plunkett Cooney  
Washtenaw County Circuit Court #2015-291-NZ

October 2016

Isaiah Mellor-McDowell et al vs Powers Trucking, Inc. et al  
Expert Witness for Powers Trucking Inc. on behalf of Gallagher, Gams, Pryor, Tallan &  
Littrell  
Fairfield County Ohio Court of Common Pleas #2013 CV 00599

March 2016

Nationwide Property and Casualty Insurance Company a/s/o Trillium Lake Condominium  
Association vs Duca LLC  
Expert Witness for Nationwide Property and Casualty Insurance Company on behalf of  
Coretti Law Firm PLLC  
Ottawa County Circuit Court #15-4318-ND

December 2015

Richard Pacente vs Stephen Hunt and Pronto Freight Ways Inc.

Expert Witness for Pronto Freight Ways on behalf of McLennon and McFadden Ltd  
Cook County Circuit Court #14 L 008687

November 2014

Auto Owners Insurance Company a/s/o Rick Depauw vs General Electric Company and  
AC Delivery

Expert Witness for Auto Owners Insurance Company of behalf of Gibson & Sharps PSC  
Kalamazoo County Circuit Court #13-0517-CZ

September 2013

The Cincinnati Insurance Company a/s/o Hal and Jacquie Katterman vs Becker Ulman  
Construction Inc. and Wolverine Insulation LLC

Expert Witness for the Defense

Eastern District Court of Michigan Court #2:12-CV-13185

February 2013

Nationwide Mutual Fire Insurance Company a/s/o Adam and Shani Ross vs Carrier  
Corporation

Expert Witness for Nationwide Mutual Fire Insurance Company on behalf of Law Office  
of Gail L Storck

Lapeer County Circuit Court #12-045523-CZ

January 2013

State Farm Fire & Casualty Co a/s/o Michael and Karmen Dittman vs Freeport Supply  
Store Inc.

Expert Witness for Freeport Supply Store Inc. on behalf of Bensinger, Cotant & Menkes  
PC

Barry County Circuit Court #12-155-NZ

February 2012

Lalone et al v Riedstra Dairy Ltd et al

Expert Witness for Riedstra Dairy Ltd on behalf of Straub Seaman & Allen

St. Joseph County Circuit Court #07-914-NH

June 2011

Farm Bureau Mutual Insurance Company a/s/o John Irlweg and Karen Koller Irlweg vs  
Patrick's Plumbing and Heating Inc. and Woodstock Soapstone Company

Expert Witness for Farm Bureau Mutual Insurance on behalf of Garan Lucow Miller

Houghton County Circuit Court #10-14657-CK

June 2010

Indian Harbor Insurance Company a/s/o Gettyridge v Muskegon Fire Equipment et al

Expert Witness for Indian Harbor Insurance Company a/s/o Gettyridge on behalf of  
Black Duggan & Moss PC

Muskegon County Circuit Court #47272MA

December 2009

Parkside Landings Inc. v Kent Power Inc. et al

Expert Witness for Cincinnati Insurance on behalf of Garan Lucow Miller PC

Allegan County District Court #09-2245-GC

October 2008

Cincinnati Insurance Company a/s/o Mission Bay Corporation dba Mission Bay Construction vs Richard Wilson dba Wilson Plumbing  
Expert Witness for Cincinnati Insurance on behalf of Garan Luow Miller  
86th Judicial District Court #08-5139-GC

June 2007

Steven Alan Dukes vs Ryan Goossens and Hope Goossens and Armock Mechanical Contractors Inc.

Expert Witness for Ryan Goossens and Hope Goossens along with Armock Mechanical Contractors on behalf of Hopkins, Curran & Smith and Bensinger Cotant & Menkes  
Kent County Circuit Court #06-08032-NO

**Video Deposition**

January 2025

Rick Finch and Meredith Finch vs The Chamberlain Group, Inc., C.H.I. Overhead Doors, Inc., and Rocke Overhead Doors, Inc.

Expert Witness for Rocke Overhead Doors, Inc.  
Macon County, Illinois, Sixth Judicial Circuit Court, Case No. 2019L94

May 2024

Donald L. Reed vs Hendricks Holding Company, Inc.; Corporate Contractors, Inc.; Hendricks Commercial Properties, LLC; The Cincinnati Insurance Companies; and ABC Insurance Companies

Expert Witness for Donald L. Reed  
Rock County, Wisconsin, Circuit Court, Case No. 19 CV 402

January 2022

Farm Bureau General Insurance Company of Michigan vs DJG Mechanical, LLC dba Oxford Plumbing & Heating Air Vac Furnace Company, and Air-Vac Furnace CO

Expert Witness for DJG Mechanical LLC  
Circuit Court for the County of Oakland, Case No. 2018-162884-NA

October 2016

Allstate Insurance Company a/s/o Ted Hoerner vs Forest Glen Mechanical Inc.

Expert Witness for Allstate Insurance Company on behalf of McLennon & McFadden Ltd  
Cook County Circuit Court #15 M1 013201

**Court Appearance**

May 2022

Stephanie Wang vs Allstate Indemnity Company

Expert Witness for Allstate Insurance  
Kane County, IL Circuit Court Case #16CH129

June 2019

Donald L Reed vs River's Edge Foundry, LLC, Hendricks Holding Company, Corporate Contractors, Inc., and Hendricks Commercial Properties

Expert Witness for Donald L Reed  
Rock County Circuit Court Case #2019CV000402

**Trials**

August 2019

Michigan Insurance Company vs Grand Rapids Fire Protection Inc.

Expert Witness for Michigan Insurance Company

Ottawa County Circuit Court Case #17-5167-NZ

July 2013

Willie Mooney Jr vs Johnnie Howard

Expert Witness for Straub, Seaman & Allen PC

Berrien County Trial Court Case #12-0085-NO-D

August 2012

Mary Haiderer vs John Nedeau

Expert Witness for Farm Bureau Insurance on behalf of James M Searer

Muskegon Circuit Court Case #10-47431-NO

June 2012

Michael and Linda Whitney vs Allstate Property and Casualty Insurance Company et al

Expert Witness for Allstate Insurance Company on behalf of Allstate Staff Counsel

Bay County Circuit Court Case #10-3692-CK

January 2012

Jere A Wendt et al vs Auto-Owners Insurance Company et al

Expert Witness for Auto-Owners Insurance Company on behalf of Jennings

Taylor Wheeler & Haley PC

St Joseph Superior Court #71D04-0907-CT-00123

February 2009

Ann McVicker et al vs Jonathan Shelton et al

Expert Witness for Auto-Owners Insurance on behalf of John R. Kuhl & Associates

Court of Common Pleas of Lucas County Ohio #CI07-6899