

Resume of
Steve Ferry

- Education:** Kent State University – Kent Ohio Bachelor of Science in Physics, 1989
- Experience:** President and Laboratory Director, PSILab, Inc., 2015–Present Laboratory Director, Microbac Laboratories, Inc. 1990–2015
- Failure Analysis and Testing:** Mr. Ferry has applied a multidisciplinary technical approach to the investigation of thousands of failures of engineered materials and products during a 30+ year career within commercial laboratories. His expertise encompasses the failure analysis of polymeric components used within most any industry. These analyses typically include examination, data collection, testing, interpretation, and analysis of the aforementioned in order to come to a complete understanding of the cause of failure. In support of these failure analyses, Mr. Ferry brings to bear expertise regarding interpretation of macro- and micro-fractographic structures. The majority of these failure analysis investigations have been performed on polymeric pipe and fittings, covering the vast array of usage environments for these products from residential to commercial to industrial settings.
- Materials investigated span the breadth of material types from the more common PE and PVC, to PEX, PERT, CPVC, ABS, PP, Acetal (POM), Nylon and other engineering thermoplastics, as well as composite constructions, including reinforced pipe and fitting products. Piping products investigated range from small diameter tubing sizes to large diameter pressure pipe and land drainage pipe, in vacuum, gravity flow, non-pressure, low pressure, and high pressure applications. Identification of unknown materials via various laboratory techniques is also an expertise.
- Mr. Ferry has analyzed personal injury cases involving hydraulic hose, piping tools (saddle tapping) as well as medical devices and sporting goods. Representative cases involved failure analyses of pipelines, pipeline installation and workmanship of construction, pipe, pipe fittings, pipe appurtenances, medical devices, and bicycle components.
- Mr. Ferry is also an expert in the development and execution of testing protocols and the interpretation of test results from a wide range of technologies. He directed a multidisciplinary commercial testing laboratory with microbiological, chemical, and mechanical ISO17025 scopes of accreditation for more than 11 years (2004–2015). Mr. Ferry is the co-founder of PSILab, Inc., a multidisciplinary materials science and product testing laboratory started in 2015.w
- Professional Affiliations:** American Society for Testing and Materials (ASTM International)
Chairman of Subcommittee F17.67 Trenchless Plastic Pipeline Technology
Vice Chairman of Subcommittee F17.40 Test Methods
American Water Works Association (AWWA)
Voting Member of the PVC Committee
Voting Member of the Rehabilitation Committee
Non-Voting Member of the PE Committee
ISO
Designated Expert to TC138 WG8 SC 2 and SC3
Plastics Pipe Institute (PPI)

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Testimony:

Year	Client	Product	Status	Court	Case
2021	Moran, Reeves, & Conn	Rubber Hose	Settled	Circuit Court for Arlington County, VA	CL20003599-00
2021	Lambdin & Chaney, LLP	PVC Insulation on Holiday Lights	Complete	District Court, City and County of Denver, CO	2019-CV-34285
2020	Dill, Dill, Carr, Stonbraker & Hutchings, PC	Unknown Identification	Settled	District Court, City and County of Denver, CO	2019-CV-34165
2020	Lynn LLP	AWWA C905 PVC Pipe	Settled	TX 429th Judicial District Court, Collin Cty	429-06607-2019
2019	City of Carroll, IA	AWWA C900 PVC Pipe	Ongoing	Iowa District Court for Carroll Cty	Pending
2019	Bennett Jones / City of Yorkton	Corrugated PVC Pipe	Ongoing	Canada	QBG No. 155 of 2012
2018	Keating Wagner	RC Helicopter	Ongoing	Larimer Cty District Ct.	2013cv31464
2018	Dentons	PEX Tubing	Ongoing	Pending	Pending
2018	Jackson, Murdo & Grant	AWWA C905 PVC Pipe	Ongoing	MT 13th Judicial District Ct., Yellowstone Cty	Cause No. DV-17-0355
2017	White & Steele	CPVC Sprinkler Pipe	Ongoing	US District Court District of CO	18-cv-00253-MEH
2017	P. Ramirez	Unknown Identification	Deposition	Div. 3, Boulder County District Court	2016CV30512
2017	Pritzker & Hageman	Compressed Gas Hose	Merged	US District Court District of CO	17-cv-5237 PJS/KMM
2016	Swanson, Martin & Bell	AWWA C900/C905 PVC	Deposition	US District Court, Northern Div., IL, Eastern District	13-CV-08407
2016	Bird Marella	AWWA C900/C905 PVC	Trial	US District Court Central District of CA	ED CV 06-00055-GW
2016	Cozen O'Connor	CPVC Valve	Deposition/Settled	District Court, County of Denver, Colorado	2016CV31611
2016	Lashly Baer	ASTM F1807 PEX Tubing Connector	Settled	Circuit Court, County of St.	TBD
2015	Swanson et al	PE and PVC Butt Fusion Pipe Joints	depo Deposition	US District Court Northern District of Illinois, Eastern Div.	13CV08407
2015	Lynn et al LLP	AWWA C905 PVC Pipe	Settled	District Court, 218th	14-06-00216-CVK
2015	Travelers Insurance	AWWA C900/C905 Fusible PVC Pipe	Deposition	US District Court District of UT Central Div.	2:14-CV-00425
2013	Bird Marella	AWWA C900/C905 PVC	Deposition	US District Court Central District of CA	ED CV 06-00055-GW
2011	Arent Fox	AWWA C900/C905 Fusible PVC Pipe	Deposition	Superior Court of CA, San Mateo County	470876

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**Publications and
Presentations:**

"Failure Analysis and Litigation of Composite Pipe," R.L. Hauser, D.W. Woods, J. Krause-Singh, and S. Ferry, presented by R.L. Hauser at the SPE Annual Technical Conference in New Orleans, LA on May 10th, 1993.

"Compressive Buckling of Hollow Cylinders: Implications for Pressure Testing of Plastic Pipe," D.W. Woods and S. Ferry, Buried Plastic Pipe Technology: 2nd Volume, ASTM STP 1222, Dave Eckstein, Ed., American Society for Testing and Materials, Philadelphia, 1993.

"The Role of Testing in the Failure Analysis of Plastics," S. Ferry and E.W.S. Bryant, presented by E.W.S. Bryant at the SPE Annual Technical Conference in Dallas, TX June 2001.

"Hardness Testing in the Medical Device and Electronics Industries," S. Ferry and D. Tompkins, Medical Device and Diagnostic Industry Magazine, March 2001.

"Discovering Why Pipes Fail," S. Ferry, Plumbing Engineer Magazine, August 2002.

"Pipeline Rehabilitation with Expanded and Oriented PVC," D.W. Woods, S. Ferry and T. Marti, presented by D.W. Woods at the Underground Infrastructure Advanced Technology Conference in Washington, D.C. December 2003.

"Long-Term CIPP Performance and its Design Implications," S. Ferry and R. Lee, presented by S. Ferry and R. Lee at the No-Dig Annual Technical Conference in San Diego, CA April 2007.

"Case Studies 7: Miscellaneous Case Studies," S. Ferry, Handbook of Plastics Testing and Failure Analysis: Third Edition, Vishu Shah, Ed., Wiley Interscience, 2007.

"Common Installation Failure Modes for In-Service Plastic Piping Components and Systems," B.E. Hauger, S. Ferry and R. Willacker, presented by B. E. Hauger at the SPE Annual Technical Conference in Cincinnati, OH in April 2013.

"Investigation of AWWA C900 Temperature Coefficients/Thermal De-Rating Factors of Current Vintage PVC Pipe," S. Ferry and T. Marti, presented by T. Marti at the ASCE Pipelines Annual Conference in Nashville, TN in July 2019.

"Advancements in the Standardization, Testing and Design of Pressure Pipe Linings", D. Kozman and S. Ferry, presented by D. Kozman at the AWWA Water Infrastructure Conference in Phoenix, AZ in September 2021.

Patents:

U.S. Patent Number 7,269,520 issued September 11, 2007: "Method for Determining Pressure Capability in Conduit."