

## CURRICULUM VITA

**Name:** James Harold Deatherage, Ph.D., P.E.  
email: [hal@constructionengineeringconsultants.com](mailto:hal@constructionengineeringconsultants.com)

**Personal:** November 13, 1941  
Knoxville, Tennessee  
U.S. Citizen

**Title:** Professor: Civil Engineering and Environmental Engineering  
Emeritus The University of Tennessee  
220 Perkins Hall  
Knoxville, TN 37996-2010

Partner: Construction Engineering Consultants  
610 S. Gay Street  
Knoxville, TN 37902  
(865) 566-0309

### Education:

B.S., Geophysics, University of Missouri, Rolla (1965)  
M.S., Structural Engineering, University of Missouri, Rolla (1966)  
Ph.D., Civil Engineering, University of Tennessee, Knoxville (1987)

### Honors:

- Department of Civil and Environmental Engineering Research Recognition Award (1999)
- ASCE Student Chapter Faculty Member of the Year (1991 & 1992)
- Department of Civil Engineering Research Award (1990)
- ASCE Student Chapter Faculty Member of the Year (1988 & 1989)
- ASCE Branch Vice-President (1989)
- Chi Epsilon
- Tau Beta Pi

### SCIENTIFIC AND PROFESSIONAL MEMBERSHIPS:

American Society of Civil Engineers  
National Society of Professional Engineers  
Tennessee Society of Professional Engineers  
Prestressed/Precast Concrete Institute  
Transportation Research Board

**PROFESSIONAL REGISTRATIONS:**

Tennessee: #10142 (Active)  
Alabama #23824 (Active)  
Kentucky: #9730 (Active)

Certified XL Tribometrist: 2/17/10

**WORK EXPERIENCE:**

2007-Present Professor Emeritus  
Department of Civil and Environmental Engineering  
The University of Tennessee

2005-Present Partner  
Construction Engineering Consultants, LLC  
Knoxville, TN

2002-2003 Associate Director  
Construction Industry Research and Policy Center  
The University of Tennessee-Knoxville

1995 - 2007 Professor  
Department of Civil and Environmental Engineering  
The University of Tennessee

1987 - 1995 Associate Professor  
Department of Civil and Environmental Engineering  
The University of Tennessee

1987 - 2002 Assistant Director  
Transportation Center  
The University of Tennessee

1975 - Present Consultant  
Private Practice, Knoxville, Tennessee  
Forensic Engineering & Expert Witness in  
Highway and Building Construction Litigation

1985 - 1987 Lecturer:  
Civil Engineering Research Assistant  
The University of Tennessee

1980 - 1985 President  
V.L. Nicholson Co.  
Knoxville, Tennessee  
General Contractors

1975 - 1985 President  
J.H. Deatherage Co., Knoxville, Tennessee

Consulting Engineers

- 1978 - 1984    Developing and Managing General Partner of residential and commercial real estate development partnerships.
- 1973 - 1975    Project Manager: Rentenbach Engineering Co. Knoxville, Tennessee  
General Contractors
- 1966 - 1973    Structural Engineer  
McDonnell Douglas Corp.  
St. Louis, Missouri and Titusville, Florida

**Technical Committee Activity:**

- District 9 Council Representative, American Society of Civil Engineers, 1989
- Mechanical Properties of Concrete, Transportation Research Board Committee, A2E03 (1989-1995)
- Research Advisory Committee, Precast/Prestressed Concrete Institute
- Committee on Disadvantaged Business Enterprises, Transportation Research Board, A2F08 (1990-1993)
- Committee on Dynamics and Field Testing of Bridges, Transportation Research Board, A2CO5 (1996-1999)
- Committee on Traffic Safety, Construction, and Maintenance, Transportation Research Board, A3CO4 (1996-1999)

**Research Activities:**

<u>Year</u>	<u>Title Of Research Project/Involvement/Duration</u>
2006	Review and Analysis of Instrumentation Data Massman Drive Bridge, Nashville, TN Principal Investigator 12 months
2005	Investigation of High Performance Concrete Properties Co-Principal Investigator 9 Months
2004	Investigation of Massman Rd. Bridge, Nashville, TN Co-Principal Investigator 12 Months

2003	Investigation of DuPont Bridge, New Johnsonville, TN Co-Principal Investigator 12 Months
2002	Investigation of Construction Targeting System and Related Injury Survey and Fatality Studies Co-Principal Investigator 12 Months
2001	Investigation of Construction Accidents in Highway Construction Principal Investigator 12 Months
2000	Investigation of Laterally Supported Concrete Piles Supporting Bridge Abutments Co-Principal Investigator 24 Months
1998	Investigation of Highway Construction Claims Principal Investigator 24 Months
1996	Modeling of Highway Construction Tasks To Determine Project Duration Principal Investigator 32 Months
1996	Behavior of Laterally Supported Piles Supporting Bridge Abutments Co-Principal Investigator 30 Months
1994	Evaluation of Overweight Vehicles on Tennessee Bridges. Principal Investigator 12 Months.
1993	Investigation of the Expected Fatigue Life of the I-40 Bridge Over the Holston River, Knox County, TN Principal Investigator. 36 months.
1993	Modeling of Bridge Piers For Seismic Analysis For Tennessee Department of Transportation. Co-Principal Investigator. 36 months.
1991-1992	Evaluation of Erosion Control Procedures to Prevent Non-Point Source Pollution in Highway Construction. Co-Principal Investigator. 12 months.
1989-1990	Anchorage Testing of Curtain Wall Systems in Concrete.

- Co-Principal Investigator.  
12 months.
- 1989-1990 Investigation of Lead Paint Removal on Highway Bridge Structures.  
Principal Investigator.  
15 months.
- 1989-1990 Investigations of Development Lengths and Transfer Lengths of Prestressing Strand in AASHTO Girders.  
Principal Investigator.  
15 months.
- 1989 Performance Evaluation of Epoxy Coated Prestressing Strand in AASHTO Girders.  
Principal Investigator.  
3 months.
- 1988 Investigation of Variables Affecting Pullout of Untensioned Seven Prestressing Strand (unfunded).  
12 months.
- 1988 Development of Early Age Properties of Concrete (unfunded).  
12 months.
- 1987-1986 Improving Bridge Load Capacity, Estimates by Correlation with Test Data, NCHRP 12-28(8).  
Research Assistant.  
24 months.

**Seminars And Short Courses Taught:**

- 2002 "Review of Wood Design Code," American Society of Civil Engineers, Knoxville Branch, Knoxville, TN., 7 June 2002.
- 1993 "Excavations - New OSHA Standards for the Construction Industry," Aluminum Company of America, Alcoa, TN.
- 1990-1993 "Avoiding Claims through Project Documentation," University of Tennessee Transportation Center, Smith, Curie, & Hancock.
- 1989 "Avoiding Construction Claims for Field Personnel," University of Tennessee Transportation Center, Smith, Curie, & Hancock.
- 1988 "Design-Build Construction-Risks and Rewards," National Society of Professional Engineers, New Orleans, Atlanta, San Juan, Atlantic City, Denver.
- 1987 - 1990 "Superintendent Training for MBE/DBE Construction Firms," University of Tennessee Transportation Center and State of Tennessee Department of Transportation.

- 1987 - 1990 "Bid Simulation as Prime Contractor for MBE/DBE Construction Firms," University of Tennessee Transportation Center and State of Tennessee Department of Transportation.
- 1987 - 1990 "Banking Relations for MBE/DBE Construction Firms," University of Tennessee Transportation Center and State of Tennessee Department of Transportation.
- 1987 - 1990 "Financial Management for MBE/DBE Construction Firms," University of Tennessee Transportation Center and State of Tennessee Department of Transportation.
- 1987 - 1990 "Project Scheduling for MBE/DBE Highway Construction Firms," University of Tennessee Transportation Center and State of Tennessee Department of Transportation.
- 1986 - 1990 "Estimating and Plans Reading for Small Construction Firms," University of Tennessee Transportation Center and State of Tennessee Department of Transportation.
- 1986 - 1990 "Construction Management for Minority and Disadvantaged Business Enterprises," University of Tennessee Transportation Center and State of Tennessee Department of Transportation.
- 1983 "State of the Art Construction Practices and Design of Tilt-Up Concrete Structures," Ideal Basic Industries and Portland Cement Association.
- 1966 - 1972 "Design and Analysis of Aircraft and Missile Structures," Continuing Education Program, McDonnell Douglas Corp., St. Louis, Missouri

**Publications:**

- Indicates Peer Review

1. • Scoble, K.P., Chapman, D.P., Deatherage, J.H., Burdette, E.G., Goodpasture, D.W., "Design and Evaluation of Experimental Bridges in Tennessee", Journal of Performance of Constructed Facilities, Vol. 24, No. 1, February 1, 2010.
2. Chapman, David, Harold Deatherage, Edwin Burdette, David Goodpasture, Accelerated Construction of Steel Bridges in Tennessee, presented at and published in the proceeding of the 2008 Highways for Life ABC Conference, Baltimore Maryland
3. • Burdette, E.G., S.C. Howard, J.H. Deatherage, and D. W. Goodpasture, "Behavior of Prestressed Concrete Piles Supporting Bridge Abutments," *Structural Concrete, Journal of the fib* (International Federation for Structural Concrete), London, Vol. 8, No. 3, September 2007, pp 119-124.
4. Burdette, E.G., S.C. Howard, E.E. Ingram, J.H. Deatherage, and D.W. Goodpasture, "Behavior of Pile Supported Integral Abutments," presented at 2005 FHWA Conference on Integral Abutments and Jointless Bridges, March 16-18 2005, Baltimore, Maryland, and published in the *Proceedings*.
5. • Deatherage, J.H., Chapman, D.P., Burdette, E.G., Goodpasture, D.W., "Evaluation of the DuPont Access Bridge," presented at the SEM Annual Conference on Experimental and Applied Mechanics, Portland, Oregon, June 4-6, 2005, published in the *Proceedings*.
6. Burdette, E.G., Ingram, E.E., Goodpasture, D.W., Deatherage, J.H., and Bennett, R.B., "Behavior of Steel H-Piles Supporting Integral Abutments," presented at the Structures

Conference and Exposition, Nashville, TN, May 22-26m 2004 and published in the Proceedings.

7. Burdette, E.G., Ingram, E.E., Goodpasture, D.W., Deatherage, J.H., and Bennett, R.B., "Behavior of Steel H-Piles Supporting Integral Abutments," presented at the Structures Conference and Exposition, Nashville, TN, May 22-26m 2004 and published in the Proceedings.
8. Burdette, E.G., Howard, S.C., Tidwell, J.B., Ingram, E.E., Goodpasture, D.W., Deatherage, J.H., and Wasserman, E.E., "Behavior of Integral Abutment Supported by Steel H-Piles," presented at the 2004 Transportation Research Board Meeting and published in the Transportation Research Record, 2004.
9. • Deatherage, J.H., Phillips, S.T., Goodpasture, D.W., Ingram, E.E., and Burdette, E.G., "Structural Testing of Semi-Tractor Trailers," Experimental Techniques, Vol 28, No.1, February 2004.
10. • Burdette, E.G., Deatherage, J.H., Goodpasture, D.W., et al "Lateral Load Tests on Prestressed Concrete Piles," PCI Journal, Vol 49, No.5.
11. • Deatherage, J.H., Furches, Lisa K., Radcliffe, Mike, Schriver, William R., "Neglecting Safety Precautions May Lead to Trenching Fatalities", American Journal of Industrial Medicine, Vol 45, 2004.
12. • Ingram, E. E., Burdette, E. G., Goodpasture, D. W., Deatherage, J. H., "Evaluation of Typical Concrete Design Equations to Steel H-Piles Supporting Integral Abutments," Engineering Journal, American Institute of Steel Construction, Vol 40, No.1, 1<sup>st</sup> Quarter, 2003.
13. Goodpasture, D.W., Edwin G. Burdette, J. Harold Deatherage, Earl E. Ingram, and Samuel Howard, "Full Scale Tests of Steel Piles Supporting Integral Abutments", Eleventh International Conference on Structural Faults and Repairs-2003, London, England, July 2003, published in Proceedings.
14. • Burdette, E.G., Goodpasture, D.W., Deatherage, J.H., "A Half-Mile Bridge Without a Joint," Concrete International, Vol. 25, No. 2, February 2003
15. Burdette, E.G., Howard, S.C, Ingram, E.E., Goodpasture, D.W., and Deatherage, J.H., "Tests of Prestressed Piles Supporting Integral Abutments," presented at the 48<sup>th</sup> Annual Prestressed Concrete Institute Annual Convention, Nashville, TN., October 6-9, 2002, and published in the Proceedings.
16. Burdette, E.G., Goodpasture, D.W., Deatherage, J.H., Ingram, E.E., and Howard, S.C., "Full Scale Tests of Piles Supporting Integral Abutments," presented at the International Conference on Experimental Mechanics, Stratford-Upon-Avon, England, August 27-29, 2002, published in the Proceedings.
17. • Burdette, E. G., Ingram, E. E., Goodpasture, D. W., Deatherage, J. H., "Behavior of Concrete Integral Abutments," Concrete International, Vol 24, No. 7, July 2002.

18. Deatherage, J. H., Schriver, W. S., Sullivan, Darcy, "Characteristics of Injuries and Injury Events Occurring Within Highway and Street Construction Sites in Tennessee," Final Report, Center to Protect Workers Rights, July 2002.
19. Ingram, E.E., Burdette, E.G., Deatherage, J.H., and Myers, Christopher, "A Comparison of Measured Bending Moments In Laterally Loaded Piles with Bending Moments Calculated with LPILE., TRB Proceedings, January 2002.
20. Ingram, E. E., Burdette, E. G., Goodpasture, D. W., Deatherage, J. H., "Evaluation of Applicability of AASHTO Column Design Equations to Steel H-Piles Supporting Integral Abutments." Presentation Transportation Research Board Annual Meeting, January 2002.
21. Goodpasture, D.W., Burdette, E.G., Deatherage, J.H., "Testing Bridges to Failure," Presented at the Ninth International Conference on Structural Faults & Repair, London, England, July 4, 2001, published in the Proceedings.
22. Deatherage, J.H., Chou, K.C., Burdette, E.G., Goodpasture, D.W., "Productivity of Highway Construction Operations," presentation to Transportation Research Board, Washington D.C., January 6, 2001.
23. Deatherage, J.H., Burdette, E.G., Goodpasture, D.W., "Structural Testing of Semi-Tractor Trailers," presented at the SEM Annual Conference on Experimental and Applied Mechanics, Portland, Oregon, June 4-6, 2001, published in the Proceedings
24. Goodpasture, D.W., Burdette, E.G., Deatherage, J.H., "Instrumentation for Prestressed Concrete Piles," presented at the SEM Annual Conference on Experimental and Applied Mechanics, Portland, Oregon, June 4-6, 2001, published in the Proceedings.
25. • Burdette, E.G., Pezeshk, S., Deatherage, J.H., Goodpasture, D.W., "Comparison of Static and Dynamic Stiffnesses of Driven Piles," Journal of Bridge Engineering, ASCE, Vol 6, No. 2, Mar/Apr 2001.
26. • Pezeshk, S., Burdette, E. G., Goodpasture, D.W., Deatherage, J. H., "Instrumentation and Dynamic Testing of Single Piles in Loess Soil," Experimental Techniques, Vol 25, No. 6, November/December 2001.
27. "Stresses on Semi-Tractor Trailers," D. W. Goodpasture, J. H. Deatherage, SEM IX International Congress on Experimental Mechanics, 6 June 2000.
28. • Clarke, Shima, Burdette, E. G., Goodpasture, D. W., Deatherage, J. H. Bennett, Richard, "Effects of Cycle Counting Methods on Effective Stress Ranges and Number of Stress Cycles," Transportation Research Board, January 2000.
29. Burdette, E. G., Deatherage, J. H., Goodpasture, D. W., Behavior of Laterally Supported Piles Supporting Bridge Abutments - Final Report, December 1999.
30. Deatherage, J. H., David W. Goodpasture, Edwin G. Burdette, Mitch Hiles, "Fatigue Evaluation and Repairs to I-40 Holston River Bridge in Tennessee", Proceedings of Structural Faults & Repairs - London, England, July 13-15 1999.

31. • Burdette, E. G., Deatherage, J. H., Goodpasture, D. W., Wasserman, E., "Field Performance of Integral Abutment Bridges in Tennessee," TRB Catalog of Practical Papers, January 1999.
32. Chou, K.C., Deatherage, J.H., Brown, E.R, Burdette, E.G., and Goodpasture, D.W. "Statistical Analysis of Repetitive Tasks in Highway Construction Operations", International Conference on Applications of Statistics and Probability (ICASP8), Dec. 1999.
33. • Chou, K.C., Deatherage, J.H., Leatherwood, T.D. and Khayat, A.J. "Innovative Method for Evaluating Overweight Vehicle Permit on Tennessee Highway Bridges", Journal of Bridge Engineering, ASCE, Vol. 4, No.3, pp. 221-227, 1999.
34. • Clarke, S. N., Deatherage, J. H., Goodpasture, D. G., Burdette, E. G., "Influence of Approach, Surface Condition, and Velocity on Impact Factors for Fatigue Prone Details," Transportation Research Record #1624, 1998.
35. Deatherage, J.H., Burdette, E.G., Goodpasture, D.W., "Behavior of Laterally Loaded Piles Supporting Bridge Abutments," Proceedings of the Fourth National Workshop on Bridge Research In Progress, p 95, Buffalo, N.Y., June 1996.
36. Burdette, E.G., Deatherage, J.H., Goodpasture, D.W., "Static and Dynamic Test of Driven Piles in Loess Soil," Proceedings of the VIII International Congress on Experimental Mechanics, Nashville, TN., June 1996.
37. Goodpasture, D.W., Deatherage, J.H., Burdette, E.G., "Testing Aging Infrastructure Fatigue Evaluation of the Holston River Bridge," Proceedings of the VIII International Congress on Experimental Mechanics, Nashville, TN., June 1996.
38. • Deatherage, J.H., Sanders, M.D., Goodpasture, D.W., Burdette, E.G., "Controlled Load Tests on a Four Girder Bridge," Transportation Research Record No 1476, pp 106-116, 1995.
39. • Cook, T.L., Burdette, E.G., Graves, R.L., Goodpasture, D.W., Deatherage, J.H., "Modeling of Bridge Foundations for Seismic Loading," Transportation Research Record No. 1476, pp 84-97, 1995.
40. Deatherage, J. H., Chou, K. C., "Evaluation and Testing of the Software Program for the Analysis of Overweight Vehicles on Tennessee Highway Bridges," Final Report for the Tennessee Department of Transportation, 1995
41. • Deatherage, J.H., Burdette, E.G., Chew, C.K., "Development Lengths and Lateral Spacing Requirements of Prestressing Strand for Prestressed Concrete Bridge Girders," PCI Journal, January/February , 1994.
42. • Deatherage, J.H., Chew, C.K., Burdette, E.G., "Behavior of Prestressed AASHTO Girders Under Static Loading," Transportation Research Record No. 1393, 1993.
43. Smoot, J.L., Moore, T.D., Deatherage, J.H., and Tschantz, B.A., "Reducing Nonpoint Source Water Pollution by Preventing Soil Erosion and Controlling Sediment on Construction Sites," University of Tennessee Report, 1992.

44. Moore, T.D., Smoot, J.L., Deatherage, J.H., "Proper Selection of Control Practices to Reduce Soil Erosion and Sediment-Related Nonpoint Source Pollution from Construction Areas," Paper in Proceedings of the Fourth Tennessee Water Resources Symposium, Knoxville, Tennessee, September 1991.
45. Deatherage, J.H., Burdette, E.G., Final Report, "Development Length and Lateral Spacing Requirements of Prestressing Strand for Prestressed Concrete Bridge Components," Precast/Prestressed Concrete Institute, September 1991.
46. Deatherage, J.H., Robinson, R.B., Miller, T.L., Final Report, "Investigation of Lead Paint Removal Techniques on Highway Bridges," Tennessee Department of Transportation, August 1991.
47. Deatherage, J.H., Burdette, E.G., Final Report, "Evaluation of Development Length and Transfer Length in Epoxy Coated Prestress Strands," Florida Wire & Cable, August 1991.
48. • Oluokun, F.A., Burdette, E.G., Deatherage, J.H., "A Rate of Development of Physical Properties of Concrete," Transportation Research Record, Vol. 1284, p. 16, 1990.
49. • Oluokun, F.A., Burdette, E.G., Deatherage, J.H., "Concrete Physical Property Development at Early Ages - The Influence of Steam Curing," Transportation Research Record, Vol. 1284, p. 31, 1990.
50. • Deatherage, J.H., Burdette, E.G., Goodpasture, D.W., "Factors Influencing the Behavior of Steel Bridges," Transportation Research Record, 1990.
51. • Satriya, Seutoh, Burdette, E.G., Goodpasture, D.W., Deatherage, J.H., "Unintended Composite Action in Highway Bridges," Transportation Research Record, Vol. 1275, p. 89, 1990.
52. • Oluokon, F.A., Burdette, E.G., Deatherage, J.H., "Splitting Tensile Strength and Compressive Strength Relationship at Early Ages," American Concrete Institute, Vol. 88, No. 2, P. 115, 1991.
53. • Oluokon, F.A., Burdette, E.G., Deatherage, J.H., "Elastic Modulus, Poisson's Ration and Compressive Strength Relationships at Early Ages," American Concrete Institute, Vol. 88, No. 1, p. 3, 1991.
54. • Oluokun, F.A., Burdette, E.G., Deatherage, J.H., "Early Age Concrete Strength Prediction by Maturity - Another Look," American Concrete Institute, Vol. 87, No. 6, p. 565, 1991.
55. • Deatherage, J.H., Burdette, E.G., Watson, M.S., Goodpasture, D.W., "The Effects of Unintended Continuity on the Behavior of a Reinforced Concrete Simple Span Bridge," Transportation Research Record, 1988.
56. Deatherage, J.H., Burdette, E.G., "Investigation of Variables Affecting Beam-Slab Bridge Load Capacity," Department of Civil Engineering Research Series, No. 42, University of Tennessee, Knoxville, Tennessee, 1987.

57. Deatherage, J.H., "Office Design and Layout for Open Space Dental Facilities," Southeastern Dental Society, Tennessee Dental Association, Annual Meeting, Proceedings, Atlanta, Georgia, 1977.
58. • Deatherage, J.H., "Evaluation of Protective Coatings on High Strength Steels," American Society of Material and Process Engineers, Proceedings, Los Angeles, California, 1971.
59. Deatherage, J.H., Stulgren, L.M., "Blast Effects on Weapon Structures," U. S. Army Missile Command, Redstone Arsenal, Huntsville, Al., 1970.

**Partial List Of Consulting And Construction Experience Prior To 1985:**

- 1974 A/E Principal In Charge of design of addition to Fox Den Country Club, Knoxville, TN.
- 1975 A/E Principal in charge of design of 200,000 s.f. Industrial plant for Food Machinery Corporation, Staunton, VA.
- 1975 Structural design engineer of pre-cast flooring system for 13-story high-rise housing for the elderly, Chattanooga, TN.
- 1976 A/E Principal in charge of design of 32,000 s.f. Office complex, Knoxville, TN.
- 1976-1977 A/E Principal in Charge of design of several Community Development Block Grant projects for improvement of roads, sidewalks, and sewers in underdeveloped areas, Knoxville, TN.
- 1977 A/E Principal in charge of design of 20-unit condominium project, Knoxville, TN.
- 1977 A/E Principal in charge of design and Construction Manager for a 64,000 s.f. Office complex, Knoxville, TN.
- 1978 A/E Principal in charge of design and construction of 35,000 s.f. Office complex, Knoxville, TN.
- 1978-1984 A/E/ Principal in charge of design and Managing General Partner of three 60 unit housing projects for low and moderate income, Oneida, TN., Athens, TN., and Huntsville, TN.
- 1979 A/E Principal in charge of design of 65,000 s.f. Office complex, Knoxville, TN.
- 1980-1984 A/E Principal in charge of design and construction of several office/warehouse/distribution centers (600,000+ s.f.), Knoxville, TN.
- 1981-1982 Principal in charge of construction of several construction projects on the World's Fair site, Knoxville, TN.
- 1974-1984 In addition to the projects shown above, participated as Principal in charge on more than 300 design projects.

1977-1984 In addition to the projects shown above, participated as Chief Operating Officer, Construction Manager, or Project Manager on more than 75 construction projects.

### **Consulting And Expert Witness Experience Since 1985:**

1985-present Over the last 20 years I have testified more than 300 times in litigation issues involving design, safety, construction productivity, construction claims, forensic failure analysis, erosion and sediment control issues, maintenance, construction quality, and other structural and civil engineering issues. CEC's client base includes several ENR Top 400 Construction firms. Additionally our litigation clients are national. We have provided litigation support in Michigan, Iowa, Pennsylvania, West Virginia, Virginia, Kentucky, Ohio, Alabama, North Carolina, South Carolina, Florida and Tennessee. Dr. Deatherage's areas of expertise as an expert witness are as follows:

- Structural Engineering
- Design Defects and Quality of Construction Evaluations
- Property and Casualty Loss Investigations
- Forensic Engineering and Failure Analysis
- Construction Claims
- Codes and Regulation issues related to Highway and Building Construction
- Personal Injury resulting from design defects and construction related issues.