

CURRICULUM VITAE

NAME: James Harold Deatherage, Ph.D., P.E..

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Knoxville, TN. 37919
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PERSONAL: November 13, 1941
Knoxville, Tennessee
U.S. Citizen

TITLE: Professor of Civil Engineering
Telephone: (865) 974-0724

EMPLOYER: The University of Tennessee
Knoxville, Tennessee 37996-2010

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)
South Carolina: #6681 (Inactive)
Kentucky: #9730 (Active)
Florida: #25155 (Inactive)
Virginia: #9415 (Inactive)

WORK EXPERIENCE:

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

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

1995 - Present 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-)
- Committee on Traffic Safety, Construction, and Maintenance, Transportation Research Board, A3CO4 (1996-)

RESEARCH ACTIVITIES:

<u>YEAR</u>	<u>TITLE OF RESEARCH PROJECT/INVOLVEMENT/DURATION</u>
2005	Investigation of High Strength 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

COMPLETED THESIS/NON-THESIS GRADUATE STUDENTS SUPERVISED:

YEAR THESIS TOPIC/DEGREE

- 2005 "Evaluation of Ultra-thin Pavement Overlay-Big South Fork National Park", Special Problem, Marty Hatcher
- 2005 "Evaluation of DuPont Access Bridge," Thesis, David P. Chapman
- 2004 "Parametric and Factor Estimating of Highway Construction", Special Problem
Ken Piakowski
- 2004 "Determining End and Edge Distance Criteria for Tenon Joints in Timber Structures", Thesis
Sally Nichols
- 2002 "Getting the Most From DrChecks, Developing Design Quality Metrics", Special Problem
Alan Shorey
- 2002 "Two-Phase Design-Build Contracting and Project Delivery", Special Problem
Anant Patel
- 2002 "Analysis of Accidents on Tennessee Highway and Stree Construction", Thesis
Mitchel Simpson
- 2001 "Micro Piles of the Spallation Neutron Source", Thesis
Christine Rose Hall
- 2000 "Structural Response of Van Trailer When Subjected to Loading and Hauling", Thesis
S. Todd Phillips
- 2000 "State of the Art of State Department of Transportation Construction Claims Proceedures," Thesis
Jennifer L. Duncan

- 2000 "Analysis of Claims in Highway Construction," Thesis
Chad D. Lawson
- 1999 "The Design-Build Project Delivery System," Thesis
Melinda Carlisle, MSCE
- 1999 "Factors Affecting Productivity of Highway Construction Operations," Thesis
Eric Brown, MSCE
- 1998 "Productivity Evaluation for Highway Excavation Operations," Thesis
Richard Gatlin, MSCE
- 1998 "Behavior Characteristics of Driven H Piles," Thesis
Eric Bonanno, MSCE
- 1998 "Modeling Highway Construction Task to Determine Project Duration," Dissertation
Abdul Abdulghafour, Ph.D.
- 1998 "Predictive Time Estimate Formulation for Bridge Deck Rehabilitation," Thesis
Dwight Allen, MSCE
- 1997 "Development of Field Testing Procedure to Determine Behavior of Steel Piles Supporting
Integral Abutments," Thesis
Anthony Ziend, MSCE
- 1996 "Evaluation of Excavation Cave-In Accidents Before and After 1990 Revisions to the OSHA
Regulations," Thesis
Owen W. Hale, MSCE
- 1996 "Impact of the Project Labor Agreement Between MK-Ferguson of Oak Ridge Company and the
Knoxville Building Trades Council on Construction at the Department of Energy, Oak Ridge
Operations," Thesis
Bryant L. Morgan, MSCE
- 1996 "Measured Deflections of a Four Girder Bridge Under Varying Loading Conditions," Thesis
Cris T. Schmidt, MSCE
- 1995 "Development of Dynamic Test For Analyzing Free Vibrations of Bridge Piers," Thesis
David Herschel McAlister, MSCE
- 1995 "Effects of Traffic Variation on Fatigue Behavior of the Holston River Bridge," Thesis
Joseph Carson Swann, MSCE
- 1994 "Earth Shoring for Cast-In-Place and Post Tensioned Bridge Construction." Thesis
Michael T. Dempster, MSCE
- 1994 "Measured Stress Ranges and Cross Frame Analysis of the Holston River Bridge." Thesis
Mark David Mayhew, MSCE

- 1994 "Controlled Load Tests on a Four Girder Steel Bridge," Thesis
Michael David Sanders, MSCE
- 1994 "Development of a Minority Participation Model for Engineering and Construction Services in a Department of Energy - Oak Ridge Environment," Thesis
Robert Samuel Seigler, MSCE
- 1993 "Strength and Durability Characteristics of Flowable Fill," Thesis
Amy Berkes Wakim, MSCE
- 1993 "Computer-Simulated Flexural Tests of Fully Prestressed AASHTO Type-I Bridge Girders," Thesis
Jonathan Cyril Van Hook, MSCE.
- 1993 "An Investigation of the Effects of Superplasticizers in Steam Cured Concrete," Thesis
Raulston S. Travis, MSCE.
- 1990 "Investigation of Lead Paint Removal Procedures on Highway Bridges," Thesis
Yon Hew. MSCE.
- 1990 "The Effects of Extended Overtime on Construction Productivity," Special Topic
Shawn Hughes. MSCE.
- 1989 "An Investigation of Variables Affecting the Transfer Length of Prestressed Concrete Members," Thesis
Brian Smith. MSCE.
- 1989 "An Investigation of Variables Affecting Pullout of Seven Wire Prestressing Strand," Thesis
Ken Griffin, MSCE.
- 1988 "Seismic Analysis of Reinforced Masonry Walls at the Sequoia Nuclear Plant," Special Topic
James Reed, MSCE.
- 1988 "Case Studies of Lateral Distribution of Wheel Loads on Highway Bridges," Special Topic
Steve Wong. MSCE.
- 1988 "Investigation of the Effects of Steam Curing on Physical Properties of Concrete at Early Ages," Special Topic
Bruce Redett, MSCE.
- 1988 "Roof System Cost Analysis for an Earth Sheltered Building," Special Topic
Norm Harber, MSCE.
- 1987 "Numerical Approach to Massonett's Equation," Special Topic
Doug Hall, MSCE.

PUBLICATIONS:

- Indicates Peer Review

1. 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
2. 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.
3. 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.
4. 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.
5. • 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.
6. • Burdette, E.G., Deatherage, J.H., Goodpasture, D.W., et al "Lateral Load Tests on Prestressed Concrete Piles," PCI Journal, Vol 49, No.5.
7. • 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.
8. • 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, 1st Quater, 2003.
9. 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.
10. • Burdette, E.G., Goodpasture, D.W., Deatherage, J.H., "A Half-Mile Bridge Without a Joint," Concrete International, Vol. 25, No. 2, February 2003
11. 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 48th Annual Prestressed Concrete Institute Annual Convention, Nashville, Tn., October 6-9, 2002, and published in the Proceedings.
12. 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.
13. • Burdette, E. G., Ingram, E. E., Goodpasture, D. W., Deatherage, J. H., "Behavoir of Concrete Integral Abutments," Concrete International, Vol 24, No. 7, July 2002.

14. 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.
15. Ingram, E.E., Burdette, E.G., Deatherage, J.H., and Myer, Christopher, "A Comparison of Measured Bending Moments In Laterally Loaded Piles with Bending Moments Calculated with LPILE., TRB Proceedings, January 2002.
16. 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.
17. 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.
18. 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.
19. 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
20. 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.
21. • 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.
22. • 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.
23. "Stresses on Semi-Tractor Trailers," D. W. Goodpasture, J. H. Deatherage, SEM IX International Congress on Experimental Mechanics, 6 June 2000.
24. • 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.
25. Burdette, E. G., Deatherage, J. H., Goodpasture, D. W., Behavior of Laterally Supported Piles Supporting Bridge Abutments - Final Report, December 1999.
26. 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.
27. • 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.

28. 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.
29. • 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.
30. • 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.
31. 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.
32. 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.
33. 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.
34. • 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.
35. • 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.
36. 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
37. • 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.
38. • Deatherage, J.H., Chew, C.K., Burdette, E.G., "Behavior of Prestressed AASHTO Girders Under Static Loading," Transportation Research Record No. 1393, 1993.
39. 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.
40. 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.

41. 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.
42. 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.
43. 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.
44. • 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.
45. • 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.
46. • Deatherage, J.H., Burdette, E.G., Goodpasture, D.W., "Factors Influencing the Behavior of Steel Bridges," Transportation Research Record, 1990.
47. • 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.
48. • Oluokun, 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.
49. • Oluokun, F.A., Burdette, E.G., Deatherage, J.H., "Elastic Modulus, Poisson's Ratio and Compressive Strength Relationships at Early Ages," American Concrete Institute, Vol. 88, No. 1, p. 3, 1991.
50. • 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.
51. • 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.
52. 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.
53. Deatherage, J.H., "Office Design and Layout for Open Space Dental Facilities," Southeastern Dental Society, Tennessee Dental Association, Annual Meeting, Proceedings, Atlanta, Georgia, 1977.
54. • Deatherage, J.H., "Evaluation of Protective Coatings on High Strength Steels," American Society of Material and Process Engineers, Proceedings, Los Angeles, California, 1971.
55. Deatherage, J.H., Stolgren, 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 Expert witness and consultant to insurance industry, sureties, lawyers, homeowners, contractors and subcontractors on forensic analysis of design issues, construction failures, claims issues involving quality of workmanship, delays, and construction operations, and personal injury resulting from design deficiencies, construction operations, or work zone injuries.

(Revised 8/10/05)