

WILLIAM D. LAWSON, PE, PHD

Associate Professor, Department of Civil, Environmental and Construction Engineering
Texas Tech University
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Professional Preparation

B.S., Civil Engineering, Texas A & M University, 1982
M.S., Civil Engineering, Texas A & M University, 1982
C.G.S., Biblical Studies, Dallas Theological Seminary, 1997
Ph. D., Civil Engineering, Texas Tech University, 2004

Professional Chronology

Academic Appointments

Associate Professor	Dept of Civil, Env & Const Engr	Texas Tech University	2012 ...
Assistant Professor	Dept of Civil & Env Engr	Texas Tech University	2006-2012
Visiting Asst Prof	Dept of Civil & Env Engr	Texas Tech University	2005-2006
Deputy Director	National Institute for Engr Ethics	Texas Tech University	2001-2006
Deputy Director	Murdough Ctr Engr Professionalism	Texas Tech University	1998-2005
Lecturer & Sr Res Assoc	Dept of Civil & Env Engr	Texas Tech University	1998-2004
Executive Director	National Institute for Engr Ethics	Texas Tech University	1999-2001
Grad Res & Teach Asst	Civil Engineering Department	Texas A&M University	1983-1984

Professional Practice/ Consulting Experience

Principal	William D. Lawson Consulting Engr	Lubbock, TX	1998 ...
Principal Engineer	Law Engr & Env Services, Inc.	Dallas, TX	1996-1998
Senior Engineer	Law Engr & Env Services, Inc.	Dallas, TX	1993-1996
Structural Engineer	Master Consultants, Inc.	Wylie, TX	1992-1993
Geotechnical Project Mgr	Trinity Engr Testing Corporation	Dallas, TX	1991-1992
Geotechnical Engineer	Trinity Engr Testing Corporation	Waco, TX	1989-1991
Graduate Engineer	Trinity Engr Testing Corporation	Austin & Abilene, TX	1985-1989
Surveyor & Grad Engineer	Jay Garrett Engineer	Texas City, TX	1984

Research Interests

Technical: soil/structure interaction, reliability-based foundation design, expansive/unsaturated soil behavior, mechanically stabilized earth retaining walls, pavement maintenance
Interdisciplinary: engineering professionalism, trust and trustworthiness in professional-client relationships, engineering judgment, practical and applied ethics, engineering education

Honors/Awards

2015 Integrated Scholar, Texas Tech University
2014 Engineer of the Year, State of Texas, Texas Society of Professional Engineers
2014 President's Excellence in Teaching Award, Texas Tech University
2012 Engineer of the Year, South Plains Chapter, Texas Society of Professional Engineers
2012 George T. and Gladys Abel Hanger Faculty Award, Texas Tech University
2012, 2011, 2010, 2009, 2006, 2005, 2003 Recognition for Outstanding Teaching, Whitacre College
2011 Engineering Education Excellence Award, NSPE/Professional Engineers in Higher Education
2011 Election to Texas Tech University Teaching Academy

2010 Texas Tech Alumni Assoc New Faculty Award, Whitacre College of Engr, Texas Tech University
2009 Teacher of the Year, Department of Civil and Environmental Engineering, Texas Tech University
2003-04 Best Paper Award, ASCE *Journal of Professional Issues in Engineering Education and Practice*
2003 Top Research Innovation, Texas Dept of Transportation Research & Technology Implementation
2003, 1997, 1996 Best of Session Paper, Texas Section ASCE

Synergistic Activities/Committee Membership

1. Licensed professional engineer, Texas PE# 66490
2. Member, American Society of Civil Engineers
3. Member, National Society of Professional Engineers
4. Member, ASFE: Geoprofessional Business Association

Selected Publications (Last 10 years)

1. Lawson, W., Senadheera, S., Surles, J. (2015). Ultrahigh-Pressure Watercutting Treatment of Flushed Chip Seals in the United States: Effectiveness and Durability. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2481, Transportation Research Board, Washington, D.C., 2015, pp. 75–82. DOI: 10.3141/2481-10
2. Wood, Timothy A., William D. Lawson, and Priyantha W. Jayawickrama (2015). “Influence of Cover Soil Depth on RC Box Culvert Load Rating”. *Transportation Research Record: Journal of the Transportation Research Board*, No. 2511, Transportation Research Board, Washington, D.C., 2015, pp. 63–71. DOI: 10.3141/2511-08.
3. Jayawickrama, P., Lawson, W., Wood, T., Surles, J. (2015). Pullout Resistance Factors for Steel MSE Reinforcements Embedded in Gravelly Backfill. *Journal of Geotechnical and Geoenvironmental Engineering*, 141(2). 10.1061/(ASCE)GT.1943-5606.0001192, 04014090.
4. Lawson, W., Jayawickrama, P., Wood, T., Surles, J. (2015) “Evaluation of AASHTO Default Values for Pullout Friction Factor, F^* for Steel Grid Mat Reinforcement.” *Transportation Research Record: Journal of the Transportation Research Board*, No. 2462, Transportation Research Board of the National Academies, Washington, D.C., 2014, pp. 7–17. DOI: 10.3141/2462-02.
5. Timothy A. Wood, William D. Lawson, Priyantha W. Jayawickrama, and Charles D. Newhouse (2014). “Evaluation of Production Models for Load Rating Reinforced Concrete Box Culverts.” ISSN 1084-0702/04014057(12), *ASCE Journal of Bridge Engineering*.
6. Lawson, William D., Priyantha W. Jayawickrama, Timothy A. Wood, and James G. Surles (2013). “Pullout Resistance Factors for Inextensible MSE Reinforcements Embedded in Sandy Backfill.” *Transportation Research Record, Journal of the Transportation Research Board*, No. 2363, Washington D.C., pp. 21-29, DOI: 10.3141/2363-03.
7. Newberry, Byron, Katherine Austin, William Lawson, Greta Gorsuch, and Thomas Darwin, “Acclimating International Graduate Students to Professional Engineering Ethics,” *Science and Engineering Ethics*, Springer, Netherlands, 2009.
8. Lawson, William D. and Senadheera, Sanjaya, “Chip Seal Maintenance: Solutions for Bleeding and Flushed Pavement Surfaces,” *Transportation Research Record: Journal of the Transportation Research Board*, No. 2108, *Maintenance and Management of the Infrastructure*, Transportation Research Board of the National Academies, Washington, DC, 2009, pp. 61-68.
9. Lawson, William D., “Not Making the Grade: Expansive Soils and Higher Education in Texas,” *Journal of Professional Issues in Engineering Education and Practice*, American Society of Civil Engineers, Vol. 131, No. 4, October 2005, pp.248-56. **(Nominee, 2005-06 Best Paper Award)**
10. Lawson, William D., “Professionalism, the Golden Years,” *Journal of Professional Issues in Engineering Education and Practice*, American Society of Civil Engineers, Vol. 130, No. 1, January 2004, pp.26-36. **(Winner, 2003-04 Best Paper Award)**