

WILLIAM D. LAWSON, P.E., PH.D.  
Curriculum Vitae

CONTACT

Department of Civil, Environmental and Construction  
Engineering  
Texas Tech University  
Box 41023  
Lubbock, TX 79409-1023  
Tel. 806.834.4484  
Email: [william.d.lawson@ttu.edu](mailto:william.d.lawson@ttu.edu)

William D. Lawson, P.E., Ph.D.  
Consulting Engineer  
3016 23<sup>rd</sup> Street  
Lubbock, TX 79410  
Tel. 806.470.1037

CAREER SUMMARY

William D. Lawson, P.E., Ph.D. serves as an Associate Professor on the faculty of the Department of Civil, Environmental and Construction Engineering at Texas Tech University. With over 30 years professional experience, Dr. Lawson's career in higher education is characterized by excellence and innovation in teaching, award-winning scholarship and sponsored research, and professional service at the national, regional and local levels. Dr. Lawson is a licensed engineer in Texas and is active in various professional and technical societies. As a consulting engineer, Dr. Lawson has provided project management and technical oversight for geotechnical, construction materials, transportation, environmental, and facilities projects nationwide.

RESEARCH INTERESTS

**Technical:** Soil/structure interaction, Reinforced box culvert analysis and behavior, Reliability-based foundation design, Expansive/unsaturated soil behavior, Mechanically stabilized earth retaining walls, Compressed earth blocks, Pavement maintenance methods, Pavement edge drop-offs, Winter weather roadway maintenance, Methods for conducting forensic studies of residential foundation failures

**Interdisciplinary:** Engineering professionalism, Trust and trustworthiness in professional-client relationships, Engineering judgment, Practical and applied ethics, Technology and society, the NCEES Fundamentals of Engineering Exam as an outcomes assessment tool, Effectiveness of web-assisted and other distance learning methods, Engineering history

TEACHING PHILOSOPHY

Effective teaching is about making connections – helping students to bridge the gaps between conceptual and theoretical knowledge and the actual contexts and applications where this knowledge is applied. Such connections help students see the kinds of problems that can be solved, understand how to apply engineering concepts and principles in solving these problems, and engage the students' imagination and creativity as they work out solutions.

Students learn best when they are given the opportunity to process knowledge in ways they trust. Thus, effective teaching focuses on the learner as opposed to the teacher and recognizes that students possess different learning styles. By strategically expanding the range of styles through which students encounter their subject matter, teachers create more rich learning opportunities and actively engage learners.

Engineering education must deliberately combine both theory and practice. In isolation, theory and practice represent stunted expressions of knowledge. But taken together, theory and practice promote understanding, and understanding enables engineers to develop the mature and practical expression of judgment and intuition vital to the engineering profession.

Engineering education must transcend technical competence and also concern itself with transmitting professional values. This is because engineers do not just solve problems—engineers *help people* solve problems — and this occurs within communities and diverse social contexts. The ideal engineer is trustworthy, one who not only knows what to do, but also how and where to use his/her knowledge for the benefit of all.

CONSULTING EXPERTISE

Prior to joining Texas Tech University, Dr. Lawson was employed with the Dallas office of Law Engineering and Environmental Services, Inc., a global engineering design firm, where he served as principal engineer, project manager, and national client manager. Dr. Lawson began his professional career with Trinity Engineering Testing Corporation, Austin, Texas, where he worked throughout central, north, and west Texas as a geotechnical engineer and geotechnical project manager.

Areas of expertise include structural distress/forensic investigations, geotechnical explorations for foundation design and pavement design, pavement condition surveys and rehabilitation, expansive soils, retaining walls and earth retaining structures, geotechnical site characterization for challenging sites, municipal solid waste landfill liner QA/QC processes, erosion control methods, construction testing and inspection, and surveying.

**EDUCATION**

Texas Tech University, Lubbock, TX	Doctor of Philosophy	Civil Engineering	2004
Dallas Theological Seminary, Dallas, TX	Certificate of Graduate Studies	Biblical Studies	1997
Texas A&M University, College Station, TX	Master of Science	Civil Engineering	1984
Texas A&M University, College Station, TX	Bachelor of Science	Civil Engineering	1982

**ACADEMIC APPOINTMENTS**

Associate Professor	Department of Civil & Environmental Engineering	Texas Tech University	2012 to present
Assistant Professor	Department of Civil & Environmental Engineering	Texas Tech University	2006-2012
Visiting Assistant Professor	Civil Engineering Department	Texas Tech University	2005-2006
Deputy Director	National Institute for Engineering Ethics	Texas Tech University	2001-2006
Deputy Director	Murdough Center for Engineering Professionalism	Texas Tech University	1998-2005
Lecturer & Senior Research Assoc.	Civil Engineering Department	Texas Tech University	1998-2004
Executive Director	National Institute for Engineering Ethics		1999-2001
Graduate Research & Teaching Asst.	Civil Engineering Department	Texas A&M University	1983-1984

**PROFESSIONAL PRACTICE/ CONSULTING EXPERIENCE**

Principal	William D. Lawson, P.E., Ph.D. Consulting Engr.	Lubbock, TX	1998 to present
Principal Engineer	Law Engineering and Environmental Services, Inc.	Dallas, TX	1996-1998
Senior Engineer	Law Engineering and Environmental Services, Inc.	Dallas, TX	1993-1996
Structural Engineer	Master Consultants, Inc.	Wylie, TX	1992-1993
Geotechnical Project Manager	Trinity Engineering Testing Corporation	Dallas, TX	1991-1992
Geotechnical Engineer	Trinity Engineering Testing Corporation	Waco, TX	1989-1991
Graduate Engineer	Trinity Engineering Testing Corporation	Austin & Abilene, TX	1985-1989
Surveyor & Graduate Engineer	Jay Garrett Engineer	Texas City, TX	1984

**PRE-PROFESSIONAL PREPARATION**

Engineer Assistant	Riewe & Wischmeyer Consulting Engineers	College Station, TX	1982
Engineer Assistant	Roden & Associates Consulting Engineers	Waco, TX	1981
Assistant Superintendent	Sycon Construction Company	Bryan, TX	1980
Structural Steel/Rebar Fabricator	Davis Iron Works	Hewitt, TX	1979
Construction Laborer	Robert E. McKee Construction Company	Temple, TX	1978
Water Well Driller's Helper	Lawson Drilling Company	Temple, TX	1967-1978

**PROFESSIONAL LICENSURE & REGISTRATION**

Licensed Professional Engineer, Civil - Texas #66490  
 Registered Engineering Firm – Texas #F-3560

**HONORS, AWARDS AND RECOGNITION**

- 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 Most Influential Professor, Whitacre College of Engineering Honors Convocation, Texas Tech University
- 2012 Tenure, Department of Civil & Environmental Engineering, Whitacre College of Engineering, 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
- 2011 Engineering Education Excellence Award, NSPE/Professional Engineers in Higher Education
- 2011 Election to Texas Tech University Teaching Academy
- 2011 Recognition for Outstanding Teaching, Whitacre College of Engineering Honors Convocation, Texas Tech University
- 2010 Texas Tech Alumni Association New Faculty Award, Whitacre College of Engineering, Texas Tech University
- 2010 Recognition for Outstanding Teaching, Whitacre College of Engineering Honors Convocation, Texas Tech University
- 2009 Recognition for Outstanding Teaching, College of Engineering Honors Convocation, Texas Tech University
- 2009 Teacher of the Year, Department of Civil and Environmental Engineering, Texas Tech University
- 2006 Recognition for Outstanding Teaching, College of Engineering Honors Convocation, Texas Tech University
- 2005 Recognition for Outstanding Teaching, College of Engineering Honors Convocation, Texas Tech University
- 2003-04 Best Paper Award, ASCE *Journal of Professional Issues in Engineering Education and Practice*
- 2003 Top Research Innovation, Texas Department of Transportation Research & Technology Implementation
- 2003 Best of Session Paper, Texas Section ASCE
- 2003 Recognition for Outstanding Teaching, College of Engineering Honors Convocation, Texas Tech University
- 2002-03 Best Paper Finalist, ASCE *Journal of Professional Issues in Engineering Education and Practice*
- 1997 Best of Session Paper, Texas Section ASCE
- 1996 Best of Session Paper, Texas Section ASCE

**PROFESSIONAL MEMBERSHIPS & ASSOCIATIONS**

Member, American Society of Civil Engineers  
 Member, ASFE: The Geoprofessional Business Association  
 Member, National Society of Professional Engineers  
 Member, Texas Society of Professional Engineers  
 Member, Association for Practical and Professional Ethics  
 Member, Chi Epsilon

**MENTORS – ACADEMIA**

The following engineering faculty members mentored, encouraged, inspired and otherwise motivated Dr. Lawson through their service as dissertation and thesis committee advisors, instructors, and/or research supervisors.

Name	Title	Organizational Affiliation	Location
Jean-Louis Briaud, Ph.D., P.E.	Professor	Texas A&M University	College Station, Texas
Robert C. Bruner, Ph.D., P.E., R.P.L.S.	Senior Lecturer	Texas A&M University	College Station, Texas
Harry M. Coyle, Ph.D., P.E.*	Professor Emeritus	Texas A&M University	College Station, Texas
Mike James, Ph.D., P.E.	Associate Professor	Texas A&M University	College Station, Texas
Priyantha W. Jayawickrama, Ph.D.	Associate Professor	Texas Tech University	Lubbock, Texas
Harry L. Jones, Ph.D., P.E.	Associate Professor	Texas A&M University	College Station, Texas
Teddy J. Hirsch, Ph.D., P.E.	Professor & CE Chair	Texas A&M University	College Station, Texas
Lee L. Lowery, Jr., Ph.D., P.E.	Professor	Texas A&M University	College Station, Texas
William M. Marcy, Ph.D., P.E.	Provost	Texas Tech University	Lubbock, Texas
James R. McDonald, Ph.D., P.E.	Professor & CE Chair	Texas Tech University	Lubbock, Texas
Kishor Mehta, Ph.D., P.E.	Horn Professor	Texas Tech University	Lubbock, Texas
H. Scott Norville, P.E., Ph.D.	Professor & CE Chair	Texas Tech University	Lubbock, Texas
Kenneth A. Rainwater, Ph.D., P.E.	Professor	Texas Tech University	Lubbock, Texas
Jimmy H. Smith, Ph.D., P.E.*	Professor	Texas Tech University	Lubbock, Texas
W. Pennington Vann, Ph.D., P.E.	Associate Professor	Texas Tech University	Lubbock, Texas
L. Dale Webb, Ph.D., P.E.	Associate Professor	Texas A&M University	College Station, Texas

**MENTORS – PROFESSIONAL CONSULTING PRACTICE**

The following engineer practitioners mentored Dr. Lawson in their role as manager/supervisor, by providing project technical oversight, through service as engineer in responsible charge during his engineer-in-training process, and/or as a peer reviewer:

Carl V. Anderson, P.E.*	Principal Hydrologist	Law Engineering & Environmental Services, Inc.	Dallas, Texas
Patrick Bolton, P.E.	Principal Engineer	Law Engineering & Environmental Services, Inc.	Dallas, Texas
Pierce Chandler, P.E.	Senior Engineer	Trinity Engineering Testing Corporation	Dallas, Texas
Robert C. Davis, Ph.D., P.E.	Chief Engineer	Trinity Engineering Testing Corporation	Austin, Texas
Barry W. Fowlkes, C.E.T.	Office Manager	Trinity Engineering Testing Corporation	Abilene, Texas
W. Jay Garrett, P.E., P.L.S.*	President	Jay Garrett Engineer	Texas City, Texas
Charlie W. Greer, P.E.	Director of Engineering	Law Engineering & Environmental Services, Inc.	Atlanta, Georgia
Doyle R. Harper, P.E.	President	Doyle Harper, Consulting Engineer	Abilene, Texas
W. Duane Harrell, P.E.	Office Manager	Trinity Engineering Testing Corporation	Waco, Texas
Jackie K. Haston, P.E.*	Senior Engineer	Trinity Engineering Testing Corporation	Dallas, Texas
Conilee Hennersdorf, P.E.	Principal Engineer	Law Engineering & Environmental Services, Inc.	Dallas, Texas
Timothy D. Higgins, P.E.	Principal Engineer	Law Engineering & Environmental Services, Inc.	Dallas, Texas
Michael H. Homan, P.E.	Office Manager	Law Engineering & Environmental Services, Inc.	Tulsa, Oklahoma
Telfryn John, C.Eng., P.E.	Chief Engineer	Law Engineering & Environmental Services, Inc.	Houston, Texas
Winfield L. McAtee, P.G.	Senior Geologist	Trinity Engineering Testing Corporation	Waco, Texas
Michael J. O'Grady, P.E.	Principal Engineer	Law Engineering & Environmental Services, Inc.	Houston, Texas
Alan D. Pond, P.E.	Principal Engineer	Law Engineering & Environmental Services, Inc.	Dallas, Texas
William A. Pope, P.E.*	President	Boone Pope Wheeler Pullin	Abilene, Texas
Earnest R. Reynolds, P.E.	Senior Engineer	Trinity Engineering Testing Corporation	Abilene, Texas
Mark J. Robinson, P.E.*	Principal Engineer	Law Engineering & Environmental Services, Inc.	Dallas, Texas
Douglas L. Smith, P.E.	Principal Engineer	Law Engineering & Environmental Services, Inc.	Dallas, Texas
David L. Thomasson, P.E.	Chief Engineer	Law Engineering & Environmental Services, Inc.	Dallas, Texas
James Thompson, C.E.T.*	Office Manager	Trinity Engineering Testing Corporation	Dallas, Texas
Jerry R. Weathers, P.E.	President	Trinity Engineering Testing Corporation	Austin, Texas
Grover C. Williams, P.E.	President	Trinity Engineering Testing Corporation	Austin, Texas
Lewis B. Yates, Jr., P.E.	Senior Engineer	Trinity Engineering Testing Corporation	Austin, Texas

\*deceased

## TEACHING

### UNDERGRADUATE COURSES TAUGHT

CE 3303, Mechanics of Solids  
CE 3321, Introduction to Geotechnical Engineering  
CE 4101, Application of Engineering Fundamentals  
CE 4200, Professional Engineering Practice Issues  
CE 4292, Engineering Ethics and Professionalism  
CE 4330, Design of Engineering Systems  
CE 4331, Special Problems: Public Works in Brazil

### GRADUATE COURSES TAUGHT

CE 5322, Geotechnical Site Characterization  
CE 5323, Advanced Foundation Engineering  
CE 5324, Geotechnical Practice for Expansive Soils  
CE 5331, Geosynthetics for Civil Engineering Applications

### GUEST LECTURER (GRADUATE AND UNDERGRADUATE COURSES)

ENGR 1107, Engineering Seminar  
CONE 1100, Introduction to Construction Engineering  
CE 3130, Civil Engineering Seminar II  
CE 4321, Geotechnical Engineering Design  
CE 5101, Graduate Seminar  
CE 5321, Advanced Soil Engineering  
CE 5327, Geotechnical Practice for Waste Disposal  
CHE 2306, Exposition of Technical Information  
CHE 4121, Chemical Engineering Research Seminar  
EE 1305, Introduction to Engineering and Computer Programming  
IE 4333, Senior Design Project  
ME 4120, Senior Seminar  
PETR 4121, Petroleum Engineering Seminar

## INNOVATIVE TEACHING

**Web-based Ethics Modules.** Under a grant from the National Science Foundation, an interdisciplinary team of researchers from Texas Tech University, Baylor University, and The University of Texas at Austin conceived, planned, and produced a web-based engineering ethics course for international and domestic graduate students. Presented as a series of individual training modules, the online content includes lectured presentations, video, case studies, content assessment exams and course assessment surveys.

**Live Webcast:** Dr. Lawson helped co-author and participated as a guest panelist in the National Society of Professional Engineers Online Ethics Forum in 2004 through 2006. These one-hour online web-conferences are moderated by NSPE and hosted by the Center for Collaboration and Education in Design. Topics included "Conflicts of Interest," "International Practice Issues," "Political Contributions and Gifts," "Engineering Challenges for Illinois Department of Transportation Employees," and "The Ethics of Gifts: Drawing the Line Internationally and Domestically."

**Web-assisted Instruction:** CE 3321 and CE 4200 are supplemented by online instruction and web-delivered content where students listen to narrated lectures (audio-visual) rather than attend face-to-face classroom lectures. Here the goal is to promote life-long learning.

**Video-Teleconference (VTC) Training Sessions, Texas Department of Transportation:** Instruction on "Fundamentals of Ethics" was taught using TxDOT's statewide video-teleconferencing (VTC) system. This series of monthly, 2-hour, training workshops served some 800 of TxDOT's 1100 licensed engineers annually. Instruction on "Winter Weather Management Training" was provided to over 800 TxDOT maintenance personnel in 2011, about 80 percent of the instruction being conducted by video-teleconference. Similarly, "Best Practices for Pavement Edge Maintenance" was provided to over 550 TxDOT maintenance personnel in 2002-03, about half of the instruction being conducted using TxDOT's (at that time) new VTC system.

**GRADUATE STUDENT MENTORING**

Dr. Lawson mentored the following graduate students by serving as chair or co-chair of their graduate advisory committee:

**DOCTORAL STUDENTS**

Name	Program	Graduation	Report/Thesis/Dissertation Title	Role
Javid, Amir	Ph.D.	2019 (pending)	Influence of Pavement Structure on Load Rating of Culvert Structures	Chair
Mousavi, Mehdi	Ph.D.	2018 (pending)	Constitutive Soil Modeling for Reinforced Concrete Culvert Structures	Chair
Rozbeh Moghaddam	Ph.D.	Aug 2016 (pending)	Reliability of the TxDOT Texas Cone Penetration (TCP) Deep Foundation Design Method	Co-Chair
Timothy A. Wood	Ph.D.	Dec 2015	Improved Culvert Load Rating through an Evaluation of the Influence of Cover Soil Depth, Demand Model Sophistication, and Live Load Attenuation	Chair
Michael Smith	Ph.D	May 2015	Measuring the Maintainability of Commercial Off-the-Shelf (COTS) Based System Deployments: A Complexity-Based Approach	Co-Chair

**MASTERS STUDENTS**

Name	Program	Graduation	Report/Thesis/Dissertation Title	Role
Chad M. Mikulec	MS/Thesis	Aug 2016 (pending)	Comparison of rock shear strength and foundation capacity based on Texas cone penetration tests and uniaxial compression tests	Chair
Earnest Terrell	MS/Report	May 2014	Geotechnical Design of Foundations	Chair
Scott Huson	MS/Report	May 2013	Snow and Ice Control Materials for Texas Roads	Co-Chair
Roderick Henderson	MS/Coursework	May 2013	Ultra High Pressure Water Cutter for Treatment of Flushed Pavement Surfaces	Co-Chair
Aditya Gaikwad	MS/Thesis	May 2013	Influence of soil suction and curing environment on strength of unstabilized compressed earth blocks	Co-Chair
Allen Johnson	MS/Thesis	May 2013	Pullout Resistance of MSE Reinforcements in Gravel Backfill Materials	Chair
Mahdi Alsalem	MS/Report	May 2012	Literature Review on Non-Traditional Construction Materials for Residential and Low-Rise Building Structures	Co-Chair
Afshin Esmailzadeh	MS/Report	May 2012	Construction Issues, Ahwaz Subway, Ahwaz, Iran	Co-Chair
Mert Bildiren	MS/Report	August 2011	Literature review: pullout resistance of inextensible metallic reinforcements	Chair
Chaitanya Kancharla	MS/Report	December 2009	Influence of molding pressure, moisture content and curing period on compressive and flexural strength of unstabilized compressed earth blocks	Chair
Timothy A. Wood	MS/Thesis	May 2009	An evaluation of alternative analysis methods for production load rating of culverts	Chair
Ravi Teja Elepe	MS/Report	December 2008	Engineering properties of compressed unstabilized earth blocks	Chair
Vikash Patwary	MS/Report	December 2008	Comparison of ACI and MC90 predictions for shrinkage on four laboratory specimens	Co-Chair
Sapan Trivedi	MS/Report	December 2008	A comparison between the fundamental material properties of the normal and fiber-reinforced concrete	Co-Chair

**INVITED PRESENTATIONS/ KEYNOTE ADDRESSES: *INTERNATIONAL AND NATIONAL VENUES***

Trust and Trustworthiness in Professional-Client Relationships	Slope Stability Analysis & Slope Stabilization in Engineering Practice, Oklahoma Geo-Institute	Oklahoma City, OK	2014
Designing Online Ethics Modules for Engineering Graduate Students	Invited Workshop, NSF Engineering Education Awardees Conference, Virginia Tech University	Reston, VA	2010
Ethics for Transportation Professionals	Invited Workshop, 51 <sup>st</sup> Annual International Conference – Highway Engineering Exchange Program	San Antonio, TX	2009
New Training and Technology Transfer Methods in Distance Learning	Invited Workshop, 2 <sup>nd</sup> International Symposium on Transportation Technology Transfer, US DOT/FHWA	St. Petersburg, FL	2006
Trust and Trustworthiness in Professional-Client Relationships	Harry E. Bovay Lecture, Texas A&M University	College Station, TX	2006
The Ethics of Gifts: Drawing the Line Internationally and Domestically	Continuing Professional Development, National Society for Professional Engineers	<i>Webinar</i>	2006
Political Contributions and Gifts	Continuing Professional Development, National Society for Professional Engineers	<i>Webinar</i>	2005
International Practice Issues	Continuing Professional Development, National Society for Professional Engineers	<i>Webinar</i>	2005
Conflicts of Interest	Continuing Professional Development, National Society for Professional Engineers	<i>Webinar</i>	2004
Best Practices for Pavement Edge Maintenance	Invited Presentation, Managing Pavement Edge Drop-offs Conference, Federal Highway Administration	Atlanta, GA	2004
Professionalism, Then & Now	Keynote Address, Engineers Week Banquet, Case Western Reserve University	Cleveland, OH	2000
Professionalism, Then & Now	Keynote Address, GeoHouston 99, American Society of Civil Engineers	Houston, TX	1999

**CREATIVE WORK PRESENTED: *INTERNATIONAL/NATIONAL VENUES***

Improved Load Rating of Reinforced Concrete Box Culverts Through Depth-Calibrated Live Load Attenuation	TRB Annual Mtg., Culvert Load Rating and Soil Structure Interaction	Washington, DC	2016
CULVLR: Software Program for Load Rating of Reinforced Concrete Box Culverts	TRB Annual Mtg., Culvert Load Rating and Soil Structure Interaction	Washington, DC	2016
Prediction of Axial Load Capacity Based on Texas Cone Penetration Test Data	International Conference on Geotechnical Engineering (ICGE 2015)	Colombo, Sri Lanka	2015
Tangential Heave Stress for Design of Deep Foundations Revisited	ASCE: 16th International Conference on Cold Regions Engineering	Salt Lake City, UT	2015
Correlation of Texas Cone Penetration and Standard Penetration Test N-Values	International Foundation Congress and Equipment Expo '15	San Antonio, TX	2015
Impact of Compaction Level and Depth of Fill on the Pullout Resistance of Ribbed Strip MSE Reinforcement	International Foundation Congress and Equipment Expo '15	San Antonio, TX	2015
Effectiveness and Durability of Ultra High Pressure Water Cutting for Treatment of Flushed Chip Seals in the United States	TRB Annual Mtg., Pavement Maintenance: Patching and Repair	Washington, DC	2015
Influence of Cover Soil Depth on RC Box Culvert Load Rating	TRB Annual Mtg., Modeling of the Pipe-Soil System	Washington, DC	2015
Pullout Resistance Factors for Ladder-Like Strip Reinforcements Used in MSE Wall Construction	TRB Annual Mtg., Design and Performance of Transportation Earthworks	Washington, DC	2015
Pullout Behavior of Welded Grid Reinforcements Embedded in Coarse Granular Backfill	ASCE Geo-Congress 2014: Geo-Characterization and Modeling for Sustainability	Atlanta, GA	2014
Comparison of Culvert Load Ratings Calculated by Three Methods	ASCE GeoCongress 2014: Geo-Characterization and Modeling for Sustainability	Atlanta, GA	2014
Evaluation of AASHTO Default Values for Pullout Friction Factor, $F^*$ , for Steel Grid Mat Reinforcement	TRB Annual Mtg., Design and Performance of Transportation Earthworks	Washington, DC	2014
Research Synthesis: Load Rating Reinforced Concrete Box Culverts	STGEC 2013: 44th Southeast Transportation Geotechnical Engineering Conference	Baton Rouge, LA	2013

CREATIVE WORK PRESENTED: *INTERNATIONAL/NATIONAL VENUES*, CONTINUED

Research-In-Progress: Reliability Based Deep Foundation Design Using Texas Cone Penetrometer (TCP) Test	STGEC 2013: 44th Southeast Transportation Geotechnical Engineering Conference	Baton Rouge, LA	2013
Research-In-Progress: Reliability Based Deep Foundation Design Using Texas Cone Penetrometer (TCP) Test	Pile Driving Contractors Association: 14th Annual Design and Installation of Cost-Efficient Piles, The E3 Conference	Houston, TX	2013
Pullout Resistance Factors for Steel Reinforcements used in TxDOT MSE Walls	ASCE Geo-Congress 2013: Stability and Performance of Slopes and Embankments III	San Diego, CA	2013
Durability of Treatment: Maintenance of Flushed Chip Seals using the Ultra High Pressure Water Cutter	TRB Annual Mtg., Pavement Maintenance Committee	Washington, DC	2013
Pullout Resistance Factors for Inextensible MSE Reinforcements Embedded in Sandy Backfill	TRB Annual Mtg., Holding Back the Earth: Walls and Abutments	Washington, DC	2013
Treatment of Flushed Chip Seals Using Ultra-High-Pressure Water Cutter: Production and Cost-Effectiveness	TRB Annual Mtg., Pavement Maintenance Initiatives	Washington, DC	2012
Pullout Resistance of MSE Reinforcements in Backfills Typically Used in Texas	AMSE Midyear Meeting	Dallas, TX	2011
Engineering Properties of Unstabilized Compressed Earth Blocks	ASCE Geo-Frontiers 2011: Advances in Geotechnical Engineering	Dallas, TX	2011
Evaluation of Soil Properties for Culvert Load Rating Applications	ASCE Geo-Frontiers 2011: Advances in Geotechnical Engineering	Dallas, TX	2011
Round Table Discussion: Online Ethics Instruction for International and Domestic Engineering Graduate Students	Nineteenth Annual Meeting, Association for Practical and Professional Ethics	Cincinnati, OH	2010
<i>Poster</i> : Ethics Instruction for International Graduate Students in Engineering	NSF Engineering Education Awardees Conference	Reston, VA	2010
The Influence of Structural Analysis Method on Culvert Load Rating	TRB Annual Mtg., Advances in Structural Analysis and Design of Culverts	Washington, DC	2010
Round Table Discussion: Overcoming acculturation barriers to ethics education for international engineering graduate students: an integrative approach	11 <sup>th</sup> International Conference on Ethics Across the Curriculum	Rochester, NY	2009
Assessment of Rock Strength by Texas Cone Penetrometer and Uniaxial Compression Tests	International Foundation Congress and Equipment Expo '09	Lake Buena Vista, FL	2009
Chip Seal Maintenance: Solutions for Bleeding and Flushed Pavement Surfaces	TRB Annual Mtg., Performance and Maintenance of Pavement Seals	Washington, DC	2009
<i>Poster</i> : Ethics Instruction for International Graduate Students in Engineering	National Science Foundation, Ethics Education in Science and Engineering PI Meeting	Arlington, VA	2009
<i>Poster</i> : Soil Sampling at Sword Beach – Luc-Sur-Mer, France, 1943: How Geotechnical Engineering Influenced the D-Day Invasion and Directed the Course of Modern History	Sixth International Conference on Case Histories in Geotechnical Engineering	Arlington, VA	2008
Fleet Transport for Roadway Maintenance Equipment: National and Texas Perspectives	TRB Annual Mtg., Maintenance Equipment Committee Mtg.	Washington, DC	2008
Best Practices for Pavement Edge Maintenance: The Farm-to-Market Road System in Texas	TRB 9 <sup>th</sup> International Conference on Low-Volume Roads	Austin, TX	2007
Ethics Instruction for International Graduate Students in Engineering	National Science Foundation, Ethics Education in Science and Engineering PI Meeting	Arlington, VA	2007
A Survey of Geotechnical Practice for Expansive Soils in Texas	4 <sup>th</sup> International Conference on Unsaturated Soils, Geo-Institute of the American Society of Civil Engineers	Carefree, AZ	2006
Highlights: Short Term Solutions to Bleeding Asphalt Pavements	TRB Annual Mtg., Roadway Pavement Preservation Task Force	Washington, DC	2006
Highlights: Short Term Solutions to Bleeding Asphalt Pavements	TRB Annual Mtg., Pavement Maintenance Committee Meeting	Washington, DC	2006
Engineering Ethics Challenges for Illinois Department of Transportation Employees	National Society for Professional Engineers	Webinar	2005
Best Practices for Pavement Edge Maintenance	TRB Annual Mtg., Pavement Edge Drop-offs	Washington, DC	2005

CREATIVE WORK PRESENTED: *INTERNATIONAL/NATIONAL VENUES*, CONTINUED

Highlights: Equipment Transport Research	TRB Annual Mtg., Maintenance Equipment Com.	Washington, DC	2005
Professionalism, Then & Now	Law Engineering: Office Mgrs & Chief Engineers	Kennesaw, GA	1997
Professionalism, Then & Now	Law Engineering: Facilities Strategic Bus. Unit	Kennesaw, GA	1997

SHORT COURSES ORGANIZED OR PRESENTED: *INTERNATIONAL AND NATIONAL VENUES*

Ethics for Professional Engineers (1PDH)	NASCC: The Steel Conference	Grapevine, TX	2012
Professional Ethics for Engineers (3PDH)	Ollson Associates, Inc.	Lincoln, NE	2011
Professional Ethics (4PDH)	Terracon Consulting, Inc.	Lenexa, KS	2006
Professional Ethics – Train the Trainer (3PDH)	Mactec Consulting, Inc.	Atlanta, GA	2005
Professional Ethics Workshop (3PDH)	Terracon Consulting, Inc.	Lenexa, KS	2004
Engineering Ethics <i>Live!</i> (1.5-hr. Session)	National Conference, American Society of Civil Engineers	Baltimore, MD	2004
Professional Ethics Workshop (4PDH)	Mactec Consulting, Inc.	Gainesville, FL	2004
Professional Ethics Workshop (4PDH)	Mactec Consulting, Inc.	Orlando, FL	2004
Professional Ethics Workshop (4PDH)	Mactec Consulting, Inc.	Miami, FL	2004
Professional Ethics Workshop (full day)	New York State Department of Transportation	Albany, NY	2003
Professional Ethics Workshop (full day)	New York State Department of Transportation	Albany, NY	2003
Engineering Ethics <i>Live!</i> (1.5-hr. Session)	National Conference, American Society of Civil Engineers	Nashville, TN	2003
NIEE/Incident at Morales (1.5-hr. Session)	National Conference, American Society of Civil Engineers	Nashville, TN	2003
Engineering Ethics <i>Live!</i> (1.5-hr. Session)	National Conference, American Society of Civil Engineers	Washington, DC	2002
Professional Ethics Workshop (full day)	New York State Department of Transportation	Albany, NY	2001
Ethics of Engineering Firms (1.5-hr Session)	National Meeting, American Council of Engineering Companies	San Antonio, TX	2001
Engineering Ethics and Professionalism (1.5-hr Session)	National Meeting, American Society of Civil Engineers	Houston, TX	2001
Engineering Ethics <i>Live!</i> (1.5-hr Session)	National Meeting, American Society of Civil Engineers	Houston, TX	2001
Professional Ethics Workshop (full day)	Oregon/Washington Society of Prof. Engineers	Vancouver, WA	2000
11 <sup>th</sup> Annual Professional Ethics <i>Live!</i>	South Plains Chapter, Texas Society of Professional Engineers	Lubbock, TX	2015
Ethics for Transportation Professionals	TxDOT 89 <sup>th</sup> Annual Transportation Short Course	College Station, TX	2015
Snow and Ice Control Research	TxDOT Maintenance and Traffic Operations Conference	Addison, TX	2015



INVITED PRESENTATIONS: *STATE AND REGIONAL VENUES*

Professional Ethics: Conflicts of Interest	79 <sup>th</sup> Annual Meeting, Texas Society of Professional Engineers	Houston, TX	2015
Panama by the Numbers : A Presentation to Celebrate the 100 <sup>th</sup> Anniversary of the Panama Canal	South Plains Chapter, Texas Society of Professional Engineers	Lubbock, TX	2015
Ethics for Professional Engineers	Texas Society of Professional Engineers, Texas A&M International University	Laredo, TX	2015
Winter Weather Training: Winter Weather Management and Operations Curriculum Development and Instruction	TxDOT Research and Technology Implementation Quarterly Meeting	Austin, TX	2014
10 <sup>th</sup> Annual Professional Ethics <i>Live!</i>	South Plains Chapter, Texas Society of Professional Engineers	Lubbock, TX	2014
Research Synthesis: Snow and Ice Chemicals for Texas Roads	TxDOT Maintenance and Traffic Operations Conference	San Antonio, TX	2014
Load Rating Culverts: Leading the Nation in Reinforced Concrete Box Culvert Load Rating Analysis	TxDOT Research and Technology Implementation Quarterly Meeting	Austin, TX	2014
Mainstream Ethics: Professional Practice Challenges You WILL See	78 <sup>th</sup> Annual Meeting, Texas Society of Professional Engineers	San Antonio, TX	2014
9 <sup>th</sup> Annual Professional Ethics <i>Live!</i>	South Plains Chapter, Texas Society of Professional Engineers	Lubbock, TX	2013
"Small" Ethical Decisions for Professional Engineers	77 <sup>th</sup> Annual Meeting, Texas Society of Professional Engineers	Dallas, TX	2013
8 <sup>th</sup> Annual Professional Ethics <i>Live!</i>	South Plains Chapter, Texas Society of Professional Engineers	Lubbock, TX	2012
Professional Ethics <i>Live!</i>	76 <sup>th</sup> Annual Meeting, Texas Society of Professional Engineers	Beaumont, TX	2012
Online Ethics Instruction for International and Domestic Engineering Graduate Students	Spring 2012 TLPDC/TTU Ethics Center: Ethics Lunch Series	Lubbock, TX	2012
Ethics for Surveying Professionals	TxDOT Surveyors Conference, Texas Department of Transportation	Austin, TX	2012
Trust and Trustworthiness in Professional-Client Relationships	Texas Annual Public Works Short Course – American Public Works Association	Lubbock, TX	2012
7 <sup>th</sup> Annual Professional Ethics <i>Live!</i>	South Plains Chapter, Texas Society of Professional Engineers	Lubbock, TX	2011
6 <sup>th</sup> Annual Professional Ethics <i>Live!</i>	South Plains Chapter, Texas Society of Professional Engineers	Lubbock, TX	2010
Trust and Trustworthiness in Professional-Client Relationships	Texas Section Meeting – American Society of Agricultural and Biological Engineers	Lubbock, TX	2009
5 <sup>th</sup> Annual Professional Ethics <i>Live!</i>	South Plains Chapter, Texas Society of Professional Engineers	Lubbock, TX	2009
Brazil by the Numbers	Brazil Day! – Texas Tech University Center for Arid and Semi-Arid Land Studies	Lubbock, TX	2009
Responsible & Ethical Conduct of Research	Cockrell School of Engineering, The University of Texas at Austin	Austin, TX	2009
4 <sup>th</sup> Annual Professional Ethics <i>Live!</i>	South Plains Chapter, Texas Society of Professional Engineers	Lubbock, TX	2008
Professional Ethics <i>Live!</i>	Texas Society of Professional Engineers Conference and 72 <sup>nd</sup> Annual Meeting	San Antonio, TX	2008
<i>Moderated Panel:</i> Leadership and Development for Employees	Texas Society of Professional Engineers Conference and 72 <sup>nd</sup> Annual Meeting	San Antonio, TX	2008
Ethical Issues Pertaining to Design-Build Construction	Texas Section, American Society of Civil Engineers	<i>Webinar</i>	2008
<i>Moderated Panel:</i> Ethical Issues Pertaining to Design-Build Construction	Texas Section, American Society of Civil Engineers	Dallas, TX	2008
3 <sup>rd</sup> Annual Professional Ethics <i>Live!</i>	South Plains Chapter, Texas Society of Professional Engineers	Lubbock, TX	2007

INVITED PRESENTATIONS: *STATE AND REGIONAL VENUES*, CONTINUED

2 <sup>nd</sup> Annual Professional Ethics <i>Live!</i>	South Plains Chapter, Texas Society of Professional Engineers	Lubbock, TX	2006
Fundamentals of Ethics Workshop	Fort Worth Chapter, Texas Society of Professional Engineers	Fort Worth, TX	2006
Honors College Ethics Panel	Texas Tech University Honors College	Lubbock, TX	2006
Engineering Ethics <i>Live!</i>	Plenary Session, Texas Section Meeting, American Society of Civil Engineers	San Antonio, TX	2006
1 <sup>st</sup> Annual Professional Ethics <i>Live!</i>	South Plains Chapter, Texas Society of Professional Engineers	Lubbock, TX	2005
Professional Ethics Workshop	Fort Worth Chapter, Texas Society of Professional Engineers	Fort Worth, TX	2005
Professional Ethics Workshop	Dallas Chapter, Texas Society of Professional Engineers	Dallas, TX	2004
Professional Ethics Workshop	South Plains Chapter, Texas Society of Professional Engineers	Lubbock, TX	2004
Professional Ethics	Foundation Engineers Association	Dallas, TX	2001
Ethics of Employee Retention	Plenary Session, Texas Section ASCE Meeting	San Antonio, TX	2001
Stranger than Fiction: Actual Ethics Violations (1PDH)	Dallas Chapter, TSPE	Dallas, TX	2001
Professional Ethics Workshop	Annual Meeting, Texas Society of Professional Engineers	Houston, TX	2001
Professionalism, Then & Now	Permian Basin Chapter, TSPE	Midland, TX	2000
Professionalism, Then & Now	Tau Beta Pi Student Chapter/TTU	Lubbock, TX	2000
Professionalism, Then & Now	IEEE Student Chapter/TTU	Lubbock, TX	2000
Lust, Power, Greed: The Ethics of Getting a Job	IEEE Student Professional Awareness Ventures	Lubbock, TX	2000
Professionalism, Then & Now	Permian Basin Chapter, TSPE	Odessa, TX	1999
Professionalism, Then & Now	ASCE Student Chapter/TTU	Lubbock, TX	1999
Professionalism, Then & Now	ASCE Student Chapter/UT Arlington	Arlington, TX	1998
Professionalism, Then & Now	Murdough Symposium	Lubbock, TX	1998
Professionalism, Then & Now	Foundation Performance Committee Symposium	Houston, TX	1998
Professionalism, Then & Now	Dallas Chapter, ASCE	Dallas, TX	1998
Foundation Failure Investigation, Analysis, and Remediation	American Institute of Architects, Abilene Chapter	Abilene, TX	1996
Construction Quality Assurance for Composite Liner Systems	Law Engineering & Environmental Services, Inc.	Houston, TX	1995
Soil Classification by the Unified Soil Classification System	Law Engineering & Environmental Services, Inc.	Dallas, TX	1994
Geotechnical Considerations in Home Building	McLennan Community College Continuing Ed.	Waco, TX	1990
Expansive Soil Considerations in Fnd. Design and Constr.	Temple Area Homebuilders	Temple, TX	1989

CREATIVE WORK PRESENTED: *STATE/REGIONAL VENUES*

Durability of Treatment: Maintenance of Flushed Chip Seals Using the Ultra High Pressure Water Cutter	87 <sup>th</sup> Annual TxDOT Transportation Short Course	College Station, TX	2013
Ultra High Pressure Water for Treatment of Flushed Pavements - Update	85 <sup>th</sup> Annual TXDOT Transportation Short Course	Bryan, TX	2011
Winter Weather Training	85 <sup>th</sup> Annual TXDOT Transportation Short Course	Bryan, TX	2011
Evaluating Existing Culverts for Load Capacity Allowing for Soil Structure Interaction	TXDOT RMC – 5 (Structures) Meeting	San Antonio, TX	2009
Maintenance Solutions for Bleeding and Flushed Pavements	TXDOT RMC – 1 (Pavements) Meeting	Arlington, TX	2006
Research Overview: Short Term Solutions to Bleeding Asphalt Pavements	TXDOT Maintenance/Traffic Operations Conference	Waco, TX	2006
Capabilities/Limitations and Recommendations for Transporting TxDOT's Heavy-Duty, Off-Road Construction and Maintenance Equipment Fleet	TxDOT Logistics Management Conference	Austin, TX	2003
Best Practices for Pavement Edge Maintenance	TXDOT RMC – 1 (Pavements) Meeting	Austin, TX	2003
Expansive Soils and Higher Education in Texas (Summary Report)	Spring Meeting, Texas Section, American Society of Civil Engineers	Corpus Christi, TX	2003
Geotechnical Practice for Expansive Soils in Texas (Summary Report)	Spring Meeting, Texas Section, American Society of Civil Engineers	Corpus Christi, TX	2003
Best Practices for Pavement Edge Maintenance	TXDOT Transportation Short Course	College Station, TX	2002
Professionalism, the Golden Years	Fall Meeting, Texas Section, American Society of Civil Engineers	El Paso, TX	2000
In Defense of a Little Theory	Spring Meeting, Texas Section, American Society of Civil Engineers	Austin, TX	2000
Professionalism, Then and Now	Spring Meeting, Texas Section, American Society of Civil Engineers	Houston, TX	1997
Case Study: Hydro-collapsible Soils	Fall Meeting, Texas Section, American Society of Civil Engineers	San Antonio, TX	1996

SHORT COURSES ORGANIZED OR PRESENTED: *STATE AND REGIONAL VENUES*

GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	San Angelo, TX	2015
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	El Paso, TX	2015
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Austin, TX	2015
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Corpus Christi, TX	2015
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Austin, TX	2014
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Lubbock, TX	2013
MNT812; Winter Weather Operations Training – Train the Trainer (12 PDH)	Texas Department of Transportation	Amarillo, TX	2012
MNT812; Winter Weather Operations Training – Train the Trainer (12 PDH)	Texas Department of Transportation	Fort Worth, TX	2012
MNT812; Winter Weather Operations Training (PILOT) (12 PDH)	Texas Department of Transportation	Lubbock, TX	2012
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Austin, TX	2012

SHORT COURSES ORGANIZED OR PRESENTED, *STATE AND REGIONAL VENUES*, CONTINUED

GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Houston, TX	2012
IPR020; Winter Weather Management Training (6PDH)	Texas Department of Transportation	Houston, Beaumont, Corpus Christi, Pharr, Yoakum, TX	2011
IPR020; Winter Weather Management Training (6PDH)	Texas Department of Transportation	San Angelo, Laredo, Odessa, TX	2011
IPR020; Winter Weather Management Training (6PDH)	Texas Department of Transportation	Austin, Bryan, Lufkin, San Antonio, Waco, TX	2011
IPR020; Winter Weather Management Training (6PDH)	Texas Department of Transportation	Fort Worth, Atlanta, Brownwood, Dallas, Paris, Tyler, TX	2011
IPR020; Winter Weather Management Training (6PDH)	Texas Department of Transportation	Amarillo, Abilene, Childress, El Paso, Lubbock, Wichita Falls, TX	2011
IPR020; Winter Weather Management Training (6PDH)	Texas Department of Transportation	Lubbock, TX	2011
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Dallas, TX	2011
GEO102; Geotechnical Applications for Transportation Projects (24 PDH)	Texas Department of Transportation	Houston, TX	2010
GEO102; Geotechnical Applications for Transportation Projects (24 PDH)	Texas Department of Transportation	Dallas, TX	2010
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Houston, TX	2010
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Dallas, TX	2009
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Bryan, TX	2009
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Austin, Dallas, Lubbock, San Antonio	2009
GEO102; Geotechnical Applications for Transportation Projects (24 PDH)	Texas Department of Transportation	Dallas, TX	2009
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Laredo, TX	2009
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Houston, TX	2009
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Fort Worth, TX	2009
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Amarillo, San Angelo	2009
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Austin, San Antonio, Paris	2009
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Odessa, El Paso, Austin	2008

SHORT COURSES ORGANIZED OR PRESENTED, *STATE AND REGIONAL VENUES*, CONTINUED

Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Waco, Houston, Lufkin	2008
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Pharr, Dallas, Wichita Falls	2008
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Beaumont, Corpus Christi, Fort Worth	2008
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Austin, Lufkin, Tyler	2008
GEO102; Geotechnical Applications for Transportation Projects (24 PDH)	Texas Department of Transportation	Wichita Falls, TX	2008
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, San Antonio, Bryan, Austin	2008
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Houston, Yoakum	2008
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Houston, TX	2008
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Dallas, Corpus Christi, Austin	2008
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Laredo, Paris, Atlanta	2008
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, El Paso, Austin, Amarillo	2008
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Austin, Brownwood, Pharr	2008
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Waco, San Angelo, Childress	2008
GEO102; Geotechnical Applications for Transportation Projects (24 PDH)	Texas Department of Transportation	Austin, TX	2008
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, San Antonio, Fort Worth, Austin	2008
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Abilene, Dallas, Houston	2007
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Austin, Pharr, Brownwood	2007
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Austin, TX	2007
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Austin, Fort Worth, Wichita Falls	2007
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, El Paso, Odessa, Austin	2007
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Houston, Lufkin, Tyler	2007
GEO102; Geotechnical Applications for Transportation Projects (24 PDH)	Texas Department of Transportation	Austin, TX	2007
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, San Antonio, Bryan, Austin	2007

SHORT COURSES ORGANIZED OR PRESENTED, *STATE AND REGIONAL VENUES*, CONTINUED

Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Austin, Houston, Beaumont	2007
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Houston, TX	2007
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Dallas, Corpus Christi, Austin	2007
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Laredo, Paris, Atlanta	2007
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, El Paso, Waco, Amarillo	2007
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, Dallas, San Angelo, Childress	2007
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Lubbock, San Antonio, Fort Worth, Austin	2007
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Abilene, Austin, Lubbock, Pharr	2006
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Austin, Brownwood, Houston, Lubbock	2006
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Austin, TX	2006
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Austin, Fort Worth, Lubbock, Wichita Falls	2006
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Austin, El Paso, Odessa, Lubbock	2006
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Austin, Houston, Lufkin, Lubbock	2006
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Houston, TX	2006
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Austin, Bryan, Lubbock, San Antonio	2006
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Austin, TX	2006
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Austin, Beaumont, Lubbock, Yoakum	2006
GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Fort Worth, TX	2006
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Corpus Christi, Dallas, Lubbock, Tyler	2006
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Atlanta, Austin, Fort. Worth, Lubbock	2006
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	El Paso, Lubbock, Paris, Waco,	2006
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Austin, Childress, Houston, Lubbock	2006
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Laredo, Lubbock, San Angelo, San Antonio	2006

SHORT COURSES ORGANIZED OR PRESENTED, *STATE AND REGIONAL VENUES*, CONTINUED

GEO101; Basic Geotechnical Engineering for Roadways (24 PDH)	Texas Department of Transportation	Austin, TX	2006
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Austin, Brownwood, Lubbock, Pharr,	2005
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Abilene, Austin, Dallas, Lubbock	2005
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Austin, Ft Worth, Odessa, W Falls	2005
Fundamentals of Ethics Workshop (2PDH – by VTC)	Texas Department of Transportation	Amarillo, Austin, El Paso, Lubbock	2005
PILOT Training: Equipment Load & Tie-Down (full day)	Texas Department of Transportation	Bryan, TX	2005
Professional Ethics Workshop (full day)	Texas Department of Transportation	Waco, TX	2005
Professional Ethics Workshop (2 PDH)	Baker & O'Brien, Inc.	Dallas, TX	2005
Professional Ethics Workshop (full day)	Texas Department of Transportation	San Antonio, TX	2005
Professional Ethics Workshop (1.5 PDH)	Civil Engineering Consultants, Inc.	San Antonio, TX	2005
Professional Ethics Workshop (full day)	Texas Department of Transportation	Houston, TX	2005
Professional Ethics Workshop (2PDH)	Parkhill, Smith & Cooper University	Lubbock, TX	2004
Professional Ethics Workshop (full day)	Texas Department of Transportation	Austin, TX	2004
Professional Ethics Workshop (full day)	Texas Department of Transportation	Austin, TX	2004
Professional Ethics Workshop (full day)	Texas Department of Transportation	Dallas, TX	2003
Professional Ethics Workshop (full day)	Texas Department of Transportation	Austin, TX	2003
Professional Ethics Workshop (full day)	Texas Department of Transportation	Childress, TX	2003
Professional Ethics Workshop (full day)	Texas Department of Transportation	Childress, TX	2003
Professional Ethics Workshop (full day)	Texas Department of Transportation	Abilene, TX	2003
Professional Ethics Workshop (full day)	Texas Department of Transportation	Wichita Falls, TX	2003
Professional Ethics Workshop (full day)	Texas Department of Transportation	Waco, TX	2003
Professional Ethics Workshop (full day)	Texas Department of Transportation	Austin, TX	2003
Professional Ethics Workshop (full day)	Texas Department of Transportation	San Antonio, TX	2003
Best Practices for Pavement Edge Maintenance (half day)	Texas Department of Transportation	Austin, TX	2003
Best Practices for Pavement Edge Maintenance (half day)	Texas Department of Transportation	San Angelo, TX	2003
Best Practices for Pavement Edge Maintenance (half day)	Texas Department of Transportation	Fort Worth, TX	2003
Best Practices for Pavement Edge Maintenance (half day)	Texas Department of Transportation	Tyler, TX	2003
Best Practices for Pavement Edge Maintenance (half day)	Texas Department of Transportation	Lubbock, TX	2003
Best Practices for Pavement Edge Maintenance (half day)	Texas Department of Transportation	Austin, TX	2003
Best Practices for Pavement Edge Maintenance (half day)	Texas Department of Transportation	Pharr, TX	2003
Best Practices for Pavement Edge Maintenance (half day)	Texas Department of Transportation	San Antonio, TX	2003
Best Practices for Pavement Edge Maintenance (half day)	Texas Department of Transportation	Corpus Christi, TX	2003
Professional Ethics Workshop (full day)	Texas Department of Transportation	Pharr, TX	2002
Professional Ethics Workshop (full day)	Texas Department of Transportation	Waco, TX	2002
Professional Ethics Workshop (full day)	Texas Department of Transportation	Austin, TX	2002
Professional Ethics Workshop (full day)	Texas Department of Transportation	Houston, TX	2002
Professional Ethics Workshop (full day)	Texas Department of Transportation	Dallas, TX	2002
Professional Ethics Workshop (full day)	Texas Department of Transportation	Tyler, TX	2002
Professional Ethics Workshop (full day)	Texas Department of Transportation	Laredo, TX	2002
Professional Ethics Workshop (full day)	Texas Department of Transportation	San Angelo, TX	2002
Professional Ethics Workshop (full day)	Texas Department of Transportation	Waco, TX	2002
Professional Ethics Workshop (full day)	Texas Department of Transportation	Austin, TX	2002
Professional Ethics Workshop (full day)	Texas Department of Transportation	Amarillo, TX	2002
Professional Ethics Workshop (full day)	Texas Department of Transportation	Fort Worth, TX	2002
Professional Ethics Workshop (full day)	Texas Department of Transportation	Houston, TX	2002

SHORT COURSES ORGANIZED OR PRESENTED, *STATE AND REGIONAL VENUES*, CONTINUED

Professional Ethics Workshop (full day)	Texas Department of Transportation	Austin, TX	2002
Professional Ethics Workshop (full day)	Texas Department of Transportation	Laredo, TX	2002
Basics of Loss Prevention and Professional Liability (full day)	South Plains Chapter TSPE, Lubbock AIA, NIEE	Lubbock, TX	2001
Soils, Concrete & Asphalt (full day)	Western Builders, Inc.	Amarillo, TX	2001
Professional Ethics Workshop (full day)	Texas Department of Transportation	Wichita Falls, TX	2001
Professional Ethics Workshop (full day)	Texas Department of Transportation	Waco, TX	2001
Professional Ethics Workshop (full day)	Texas Department of Transportation	Tyler, TX	2001
Professional Ethics Workshop (full day)	Texas Department of Transportation	Austin, TX	2001
Professional Ethics Workshop (full day)	Texas Department of Transportation	Austin, TX	2001
Professional Ethics Workshop (full day)	Texas Department of Transportation	Atlanta, TX	2001
Professional Ethics Workshop (full day)	Texas Department of Transportation	Houston, TX	2001
Stranger than Fiction: Actual Ethics Violations (1PDH)	IEEE Professional Development Seminar	Amarillo, TX	2001
Professional Ethics Workshop (4PDH)	Golder Associates, Inc.	Houston, TX	2001
Professional Ethics Workshop (full day)	Texas Department of Transportation	Austin, TX	2000
Professional Ethics Workshop (full day)	Texas Department of Transportation	Houston, TX	2000
Professional Ethics Workshop (full day)	Texas Department of Transportation	Fort Worth, TX	2000
Professional Ethics Workshop (full day)	Texas Department of Transportation	San Angelo, TX	2000
Professional Ethics Workshop (full day)	Texas Department of Transportation	El Paso, TX	2000
Professional Ethics Workshop (full day)	Texas Department of Transportation	Odessa, TX	2000
Professional Ethics Workshop (full day)	Texas Department of Transportation	El Paso, TX	2000
Professional Ethics Workshop (full day)	Texas Department of Transportation	Houston, TX	2000
Professional Ethics Workshop (full day)	Texas Department of Transportation	Pharr, TX	2000
Professional Ethics Workshop (full day)	Texas Department of Transportation	Dallas, TX	2000
Professional Ethics Workshop (4PDH)	Oller Engineering, Inc.	Lubbock, TX	2000
Professional Ethics Workshop (2PDH)	Patton Burke & Thompson, Inc.	Dallas, TX	2000
Professional Ethics Workshop (full day)	Texas Department of Transportation	Lubbock, TX	1999
Professional Ethics Workshop (full day)	Texas Department of Transportation	El Paso, TX	1999
Professional Ethics Workshop (full day)	Texas Department of Transportation	Lubbock, TX	1999
Professional Ethics Workshop (full day)	Texas Department of Transportation	Dallas, TX	1999
Professional Ethics Workshop (full day)	Texas Department of Transportation	Corpus Christi, TX	1999
Professional Ethics Workshop (full day)	Texas Department of Transportation	Odessa, TX	1999
Professional Ethics Workshop (full day)	Texas Department of Transportation	Wichita Falls, TX	1999
Professional Ethics Workshop (full day)	Texas Department of Transportation	Beaumont, TX	1999
Professional Ethics Workshop (full day)	Texas Department of Transportation	Beaumont, TX	1999
Professional Ethics Workshop (full day)	Texas Department of Transportation	Corpus Christi, TX	1999
Professional Ethics Workshop (full day)	Texas Department of Transportation	San Antonio, TX	1999
Professional Ethics Workshop (2PDH)	Freese & Nichols, Inc.	Fort Worth, TX	1999
Professional Ethics Workshop (2PDH)	IEEE Professional Development Seminar	Amarillo, TX	1998
Professional Ethics Workshop (full day)	Texas Department of Transportation	Austin, TX	1998
Professional Ethics Workshop (full day)	Texas Department of Transportation	Houston, TX	1998
Professional Ethics Workshop (full day)	Texas Department of Transportation	Austin, TX	1998
Professional Ethics Workshop (full day)	Texas Department of Transportation	Austin, TX	1998
Professional Ethics Workshop (full day)	Texas Department of Transportation	Odessa, TX	1998
Pavement Design Guidelines for Bus Terminals (2PDH)	Greyhound Lines, Inc.	Dallas, TX	1996



## CONFERENCES, SEMINARS OR WORKSHOPS ATTENDED (CONTINUING EDUCATION)

95 <sup>th</sup> Annual Meeting	Transportation Research Board	Washington, DC	2016
89 <sup>th</sup> Annual Transportation Short Course	Texas Department of Transportation	College Station, TX	2015
Maintenance and Traffic Operations Conference	Texas Department of Transportation	Addison, TX	2015
Educate the Educators: A Geosynthetics Training Program for University Professors	International Geosynthetics Society/ North American Geosynthetics Society	Austin, TX	2015
79 <sup>th</sup> Annual Meeting	Texas Society of Professional Engineers	Houston, TX	2015
International Foundation Congress and Equipment Expo '15	ADSC, DFI, ASCE G-I, PDCA	San Antonio, TX	2015
Quarterly Meeting (WINTER)	Research and Technology Implementation Office, Texas Department of Transportation	Austin, TX	2014
Slope Stability Analysis & Slope Stabilization in Engineering Practice	ASCE Geo-Institute, Oklahoma Chapter	Oklahoma City, OK	2014
Global Engineering Conference 2014	American Society of Civil Engineers	Panama City, Panama	2014
Quarterly Meeting (FALL)	Research and Technology Implementation Office, Texas Department of Transportation	Austin, TX	2014
Maintenance and Traffic Operations Conference	Texas Department of Transportation	San Antonio, TX	2014
78 <sup>th</sup> Annual Meeting	Texas Society of Professional Engineers	San Antonio, TX	2014
NIEE Annual Board Meeting	National Institute for Engineering Ethics	Chicago, IL	2014
Geo-Characterization and Modeling for Sustainability	ASCE Geo-Congress 2014	Atlanta, GA	2014
STGEC 2013: 44 <sup>th</sup> Southeastern Transportation Geotechnical Engineering Conference	Louisiana DOTD	Baton Rouge, LA	2013
14 <sup>th</sup> Annual Design and Installation of Cost-Efficient Piles, The E3 Conference	Pile Driving Contractors Association	Houston, TX	2013
87 <sup>th</sup> Annual Transportation Short Course	Texas Department of Transportation	College Station, TX	2013
77 <sup>th</sup> Annual Meeting	Texas Society of Professional Engineers	Dallas, TX	2013
Stability and Performance of Slopes and Embankments III	ASCE Geo-Congress 2013	San Diego, CA	2013
92 <sup>nd</sup> Annual Meeting	Transportation Research Board	Washington, DC	2013
76 <sup>th</sup> Annual Meeting	Texas Society of Professional Engineers	Beaumont, TX	2012
NIEE Annual Board Meeting	National Institute for Engineering Ethics	Dallas, TX	2012
NASCC: The Steel Conference	American Institute of Steel Construction	Grapevine, TX	2012
TxDOT Surveyors Technology Expo	Texas Department of Transportation	Austin, TX	2012
Spring 2012 Ethics Series	Teaching, Learning & Prof. Dev. Ctr., TTU	Lubbock, TX	2012
Texas Annual Public Works Short Course	American Public Works Association	Lubbock, TX	2012
91 <sup>st</sup> Annual Meeting	Transportation Research Board	Washington, DC	2012
85 <sup>th</sup> Annual Transportation Short Course	Texas Department of Transportation	Bryan, TX	2011
2011 Annual Meeting	National Society of Professional Engineers	Las Vegas, NV	2011
2011 Executive Board Meeting	National Institute for Engineering Ethics	Lubbock, TX	2011
2011 Midyear Meeting	Association for Metallically Stabilized Earth	Dallas, TX	2011
Geo-Frontiers 2011	Geo-Institute of the American Society of Civil Engineers	Dallas, TX	2011
90 <sup>th</sup> Annual Meeting	Transportation Research Board	Washington, DC	2011
ER 2010, Earth Retention Conference 3	Geo-Institute of the American Society of Civil Engineers	Bellevue, WA	2010
Nineteenth Annual Meeting	Association of Practical and Professional Ethics	Cincinnati, OH	2010
NSF Engineering Education Awardees Conference	National Science Foundation and Department of Engineering Education- Virginia Tech University	Reston, VA	2010
11 <sup>th</sup> International Conference on Ethics Across the Curriculum	Society for Ethics Across the Curriculum	Rochester, NY	2009
Research Management Committee Meeting (RMC -5)	Texas Department of Transportation	San Antonio, TX	2009
Texas Section Meeting	American Society of Agricultural and Biological Engineers	Lubbock, TX	2009

## CONFERENCES, SEMINARS OR WORKSHOPS ATTENDED (CONTINUING EDUCATION), CONTINUED

12th Annual Port to Plains Conference	Port to Plains Trade Corridor Alliance	Lubbock, TX	2009
51st Annual International Conference	Highway Engineering Exchange Program	San Antonio, TX	2009
International Foundation Congress and Equipment Expo '09	ADSC, ASCE, PDCA	Lake Buena Vista, FL	2009
88th Annual Meeting	Transportation Research Board	Washington, DC	2009
Ethics Education in Science and Engineering	National Science Foundation	Arlington, VA	2009
Vendors Conference on Training Delivery and Contract Administration	Texas Department of Transportation	Austin, TX	2008
LEHM 2008, Trade Fair and Fifth International Conference on Building with Earth	Dachverband Lehm e.V.	Koblenz, Germany	2008
Sixth International Conference on Case Histories in Geotechnical Engineering	Missouri University of Science and Technology	Arlington, VA	2008
2008 Chicago Geotechnical Lecture Series	Geo-Institute of the American Society of Civil Engineers	Chicago, IL	2008
87th Annual Meeting	Transportation Research Board	Washington, DC	2008
Soil Constitutive Modeling for Engineers: Fundamentals, Evaluation and Calibration	American Society of Civil Engineers	Atlanta, GA	2007
9th International Conference on Low-Volume Roads	Transportation Research Board	Austin, TX	2007
Research Management Committee Meeting (RMC -1)	Texas Department of Transportation	San Antonio, TX	2007
Foundation Design on Expansive Soil	Colorado State University	Denver, CO	2007
Ethics Day	Texas Tech University	Lubbock, TX	2007
Ethics Education in Science and Engineering	National Science Foundation	Arlington, VA	2007
Research Management Committee Meeting (RMC -1)	Texas Department of Transportation	Arlington, TX	2006
Texas Section Meeting (Fall)	American Society of Civil Engineers	San Antonio, TX	2006
The Second International Symposium on Transportation Technology Transfer	US Department of Transportation, Federal Highway Administration	St. Petersburg, FL	2006
Executive Board Meeting	National Institute for Engineering Ethics	Dallas, TX	2006
2006 Maintenance/Traffic Operations Conference	Texas Department of Transportation	Waco, TX	2006
4th International Conference on Unsaturated Soils	Geo-Institute of the American Society of Civil Engineers	Carefree, AZ	2006
85th Annual Meeting	Transportation Research Board	Washington, DC	2006
Pavement Preservation Seminar	Foundation for Pavement Preservation	Austin, TX	2005
Executive Board Meeting	National Institute for Engineering Ethics	Dallas, TX	2005
1st Annual Conference	TxDOT Training Delivery & Contract Admin	Austin, TX	2005
14th Annual Meeting	Association for Practical & Professional Ethics	San Antonio, TX	2005
84th Annual Meeting	Transportation Research Board	Washington, DC	2005
Managing Pavement Edge Drop-offs	Federal Highway Administration	Atlanta, GA	2004
Logistics Management Conference	Texas Department of Transportation	Austin, TX	2004
4th Annual Engineering Ethics Day	Texas Tech University	Lubbock, TX	2004
Video-Teleconferencing for Meetings	Texas Department of Transportation	Austin, TX	2003
Statewide Maintenance Conference	Texas Department of Transportation	Waco, TX	2003
Texas Section Meeting (Spring)	American Society of Civil Engineers	Corpus Christi, TX	2003
3rd Annual Engineering Ethics Day	Texas Tech University	Lubbock, TX	2003
Logistics Management Conference	Texas Department of Transportation	Austin, TX	2003
Research Management Committee Meeting (RMC -1)	Texas Department of Transportation	Austin, TX	2003
National Conference	American Society of Civil Engineers	Nashville, TN	2003
Statewide Maintenance Conference	Texas Department of Transportation	San Antonio, TX	2002
2nd Annual Engineering Ethics Day	Texas Tech University	Lubbock, TX	2002
Transportation Short Course	Texas Department of Transportation	College Station, TX	2002
National Conference	American Society of Civil Engineers	Washington, DC	2002
Professional Practice Conference	South Plains Chapter TSPE, Lubbock AIA, NIEE	Lubbock, TX	2001
Texas Section Meeting (Spring)	American Society of Civil Engineers	San Antonio, TX	2001

## CONFERENCES, SEMINARS OR WORKSHOPS ATTENDED (CONTINUING EDUCATION), CONTINUED

National Conference	American Council of Engineering Companies	San Antonio, TX	2001
1st Annual Engineering Ethics Day	Texas Tech University	Lubbock, TX	2001
Annual (State) Meeting	Texas Society of Professional Engineers	Houston, TX	2001
National Conference	American Society of Civil Engineers	Houston, TX	2001
Texas Section Meeting (Spring)	American Society of Civil Engineers	Austin, TX	2000
Texas Section Meeting (Fall)	American Society of Civil Engineers	El Paso, TX	2000
GeoHouston 99	American Society of Civil Engineers	Houston, TX	1999
Texas Section Meeting (Spring)	American Society of Civil Engineers	Longview, TX	1999
Texas Section Meeting (Fall)	American Society of Civil Engineers	Midland, TX	1999
12th Murdough Symposium	Texas Tech University	Lubbock, TX	1999
National Conference	American Society of Civil Engineers	Charlotte, NC	1999
Annual (State) Meeting	Texas Society of Professional Engineers	Austin, TX	1999
11th Murdough Symposium	Texas Tech University	Lubbock, TX	1998
Annual Symposium	Foundation Performance Committee	Houston, TX	1998
Property Condition Survey Seminar	Law Engineering & Environmental Services, Inc.	Kennesaw, GA	1997
5th Spencer J. Buchannan Lecture	Texas A&M University	College Station, TX	1997
Texas Section Meeting (Spring)	American Society of Civil Engineers	Houston, TX	1997
4th Spencer J. Buchannan Lecture	Texas A&M University	College Station, TX	1997
Permitted Confined Space 29CFR 1910.146	DalMac Environmental Services, Inc.	Dallas, TX	1996
Texas Section Meeting (Fall)	American Society of Civil Engineers	San Antonio, TX	1996
3rd Spencer J. Buchannan Lecture	Texas A&M University	College Station, TX	1995
Geosynthetic Clay Liners for Waste Containment	University of Texas at Austin	Austin, TX	1995
Introduction to Project Management	Law Engineering & Environmental Services, Inc.	Houston, TX	1995
Municipal Solid Waste Management Conference	Texas Natural Resource Conservation Commis.	Austin, TX	1995
Basic Risk Management	Law Engineering & Environmental Services, Inc.	San Francisco, CA	1994
Professional Orientation Program	Law Engineering & Environmental Services, Inc.	Atlanta, GA	1994
Geotechnical & Geoenvironmental Seminar	Law Engineering & Environmental Services, Inc.	Houston, TX	1994
Civil Treatment for Managers	Law Engineering & Environmental Services, Inc.	Dallas, TX	1994
2nd Spencer J. Buchannan Lecture	Texas A&M University	College Station, TX	1994
Strategic & Tactical Planning for Business Development	Law Engineering & Environmental Services, Inc.	Dallas, TX	1994
Geotechnical Seminar	Law Engineering & Environmental Services, Inc.	Atlanta, GA	1993
1st Spencer J. Buchannan Lecture	Texas A&M University	College Station, TX	1993
National Conference	American Society of Civil Engineers	Dallas, TX	1993
Residential Home Inspections	R. J. Moore & Associates	Waco, TX	1993
Structural Condition Surveys of Residential Homes	R. J. Moore & Associates	Waco, TX	1993
Loss Prevention Seminar	Trinity Engineering Testing Corporation	Austin, TX	1992
Underground Storage Tanks & Municipal Solid Waste	Trinity Engineering Testing Corporation	Austin, TX	1989
Excavation Safety/ Trench Safety Design	Trinity Engineering Testing Corporation	Austin, TX	1987
Texas Section Meeting (Spring)	American Society of Civil Engineers	Fort Worth, TX	1987
Loss Prevention Seminar	Trinity Engineering Testing Corporation	Austin, TX	1986
Maintenance, Repair & Modification of Dams	Texas Water Commission	Austin, TX	1986
Lime Stabilization Workshop	National Lime Association	Abilene, TX	1986
Pressuremeter, Cone Penetrometer & Foundation Design	Texas A&M University	College Station, TX	1983
Offshore Technology Conference	American Society of Civil Engineers	Houston, TX	1982

## RESEARCH

### SPONSORED RESEARCH GRANTS & PROJECTS

Dr. Lawson has been successful in garnering funds for sponsored research. Since joining Texas Tech University in 1998, Dr. Lawson has obtained overall research funding of \$5,734,920 (individual credit \$2,144,140). Sponsors include the National Science Foundation, the Texas Department of Transportation, The Reinforced Earth Company, POSCO Engineering and Construction, and the South Plains Transportation Center.

Title:	Leadership Training for Maintenance Professionals
Sponsor:	Texas Department of Transportation – Lubbock District
Performance Period:	FY16
Total Dollar Amount:	\$ 10,000
Principal Investigator	William D. Lawson (50%)
Co-Principal Investigator(s)	Daan Liang

Title:	Implementation of LRFD Geotechnical Design for Deep Foundations Using Texas Cone Penetrometer (TCP) Test
Sponsor:	Texas Department of Transportation
Performance Period:	FY15
Total Dollar Amount:	\$ 59,783
Principal Investigator	Hoyoung Seo
Co-Principal Investigator(s)	William D. Lawson (33%), James Surles

Title:	Field Guide for MSE Reconfiguration
Sponsor:	Texas Department of Transportation
Performance Period:	FY15
Total Dollar Amount:	\$ 59,196
Principal Investigator	Priyantha Jayawickrama
Co-Principal Investigator(s)	William D. Lawson (25%), Ted Ghebrab

Title:	Leadership Training for Maintenance Professionals
Sponsor:	Texas Department of Transportation – Lubbock District
Performance Period:	FY15
Total Dollar Amount:	\$ 10,000
Principal Investigator	William D. Lawson (50%)
Co-Principal Investigator(s)	Daan Liang

Title:	Snow and Ice Chemicals for Texas Roads: Modification 3, Field and Lab Testing
Sponsor:	Texas Department of Transportation
Performance Period:	FY15
Total Dollar Amount:	\$ 226,164
Principal Investigator	Andrew Jackson
Co-Principal Investigator(s)	Ken Rainwater, William Lawson (10%), Daan Liang, Sanjaya Senadheera, James Surles, Timothy Wood, Audra Morse, Weile Yan

Title:	Load Rating TxDOT pre-1980 In-Service Culverts
Sponsor:	Texas Department of Transportation
Performance Period:	FY14-16
Total Dollar Amount:	\$ 1,097,227
Principal Investigator	William D. Lawson (16%)
Co-Principal Investigator(s)	Sang-wook Bae, Priyantha W. Jayawickrama, Stephen M. Morse, Hoyoung Seo, James G. Surles, Timothy A. Wood

Title:	Impact of Deicing Salts on Corrosion Rates of MSE Reinforcements
Sponsor:	South Plains Transportation Center
Performance Period:	FY14-15
Total Dollar Amount:	\$ 63,322
Principal Investigator	Priyantha Jayawickrama
Co-Principal Investigator(s)	Sang-wook Bae, Andrew Jackson, William D. Lawson (20%), Hoyoung Seo

## SPONSORED RESEARCH GRANTS &amp; PROJECTS, CONTINUED

Title: Cold Regions Engineering: Geotechnical Challenges and Solutions  
 Sponsor: POSCO Engineering and Construction  
 Performance Period: FY14  
 Total Dollar Amount: \$ 24,800  
 Principal Investigator: Hoyoung Seo  
 Co-Principal Investigator(s): Priyantha Jayawickrama, William D. Lawson (25%)

Title: GEO101 Geotechnical Training – FY13-15  
 Sponsor: Texas Department of Transportation  
 Performance Period: FY13-15  
 Total Dollar Amount: \$ 91,423  
 Principal Investigator: William D. Lawson (50%)  
 Co-Principal Investigator(s): Priyantha Jayawickrama

Title: Seal Coat Quality: Does Low Cost Mean Low Quality?  
 Sponsor: Texas Department of Transportation  
 Performance Period: FY13-14  
 Total Dollar Amount: \$ 142,789  
 Principal Investigator: Sanjaya P. Senadheera  
 Co-Principal Investigator(s): William D. Lawson (50%)

Title: Reliability Based Deep Foundation Design Using Texas Cone Penetrometer (TCP) Test  
 Sponsor: Texas Department of Transportation  
 Performance Period: FY13-14  
 Total Dollar Amount: \$ 399,845  
 Principal Investigator: William D. Lawson (20%)  
 Co-Principal Investigator(s): Priyantha Jayawickrama, Hoyoung Seo, James G. Surlis, Timothy A. Wood

Title: Load Rating TxDOT Culvert Design Standards  
 Sponsor: Texas Department of Transportation  
 Performance Period: FY12-13  
 Total Dollar Amount: \$ 155,752  
 Principal Investigator: William D. Lawson (40%)  
 Co-Principal Investigator(s): Priyantha Jayawickrama, Timothy Wood

Title: Software Development to Implement the TxDOT Culvert Rating Guide  
 Sponsor: Texas Department of Transportation  
 Performance Period: FY12-13  
 Total Dollar Amount: \$ 74,288  
 Principal Investigator: William D. Lawson (25%)  
 Co-Principal Investigator(s): Priyantha Jayawickrama, Stephen Morse, Timothy Wood

Title: Snow and Ice Chemicals for Texas Roads  
 Sponsor: Texas Department of Transportation  
 Performance Period: FY12-14  
 Total Dollar Amount: \$ 330,751  
 Principal Investigator: Andrew Jackson  
 Co-Principal Investigator(s): William Lawson (15%), Audra Morse, Weile Yan, Ken Rainwater, Daan Liang, Sanjaya Senadheera

Title: Winter Weather Management and Operations Curriculum Development and Instruction  
 Sponsor: Texas Department of Transportation  
 Performance Period: FY11-12  
 Total Dollar Amount: \$ 212,007  
 Principal Investigator: William D. Lawson (100%)  
 Co-Principal Investigator(s):

Title: MSE Pullout Testing for RECo HA Ladder and HA Strip Reinforcements  
 Sponsor: The Reinforced Earth Company  
 Performance Period: FY11  
 Total Dollar Amount: \$ 24,052  
 Principal Investigator: William D. Lawson (50%)  
 Co-Principal Investigator(s): Priyantha W. Jayawickrama

## SPONSORED RESEARCH GRANTS &amp; PROJECTS, CONTINUED

Title:	Exploratory Study of the Engineering Properties of Greenstar Blox
Sponsor:	Commercial Development Grant: Office of Technology Commercialization, Texas Tech University
Performance Period:	FY11
Total Dollar Amount:	\$ 50,000
Principal Investigator:	Douglas Smith
Co-Principal Investigator(s):	Derrick Tate, William D. Lawson (33%)
Title:	Implementing the Ultra-High Pressure Water Cutter for Roadway Maintenance Applications
Sponsor:	Texas Department of Transportation
Performance Period:	FY11-12
Total Dollar Amount:	\$ 333,490
Principal Investigator:	William D. Lawson (50%)
Co-Principal Investigator(s):	Sanjaya Senadheera
Title:	Pullout Resistance of Mechanically Stabilized Earth Reinforcement in Backfills Typically Used in Texas
Sponsor:	Texas Department of Transportation
Performance Period:	FY10-12
Total Dollar Amount:	\$ 393,374
Principal Investigator:	William D. Lawson (40%)
Co-Principal Investigator(s):	Priyantha W. Jayawickrama, Timothy Wood
Title:	Geotechnical Training
Sponsor:	Texas Department of Transportation
Performance Period:	FY10-12
Total Dollar Amount:	\$ 146,691
Principal Investigator:	William D. Lawson (50%)
Co-Principal Investigator(s):	Priyantha W. Jayawickrama, Sanjaya Senadheera
Title:	Ethics for Transportation Professionals – IHEEP Presentation
Sponsor:	Texas Department of Transportation
Performance Period:	FY10
Total Dollar Amount:	\$ 1,744
Principal Investigator:	William D. Lawson (100%)
Co-Principal Investigator(s):	
Title:	Geotechnical Engineering Training
Sponsor:	Texas Department of Transportation
Performance Period:	FY09
Total Dollar Amount:	\$ 54,848
Principal Investigator:	William D. Lawson (48%)
Co-Principal Investigator(s):	Priyantha W. Jayawickrama, Sanjaya Senadheera
Title:	Fundamentals of Ethics
Sponsor:	Texas Department of Transportation
Performance Period:	FY07-09
Total Dollar Amount:	\$ 56,500
Principal Investigator:	William D. Lawson (100%)
Co-Principal Investigator(s):	
Title:	Compressed Earth Block (CEB) Building System
Sponsor:	EarthCo Building Systems
Performance Period:	FY06-08
Total Dollar Amount:	\$ 15,000
Principal Investigator:	Derrick Tate
Co-Principal Investigator(s):	Timothy Maxwell, Atila Ertas, Kuhn Park, William Lawson (25%)
Title:	0-5849, Evaluating Existing Culverts for Load Capacity Allowing for Soil Structure Interaction
Sponsor:	Texas Department of Transportation
Performance Period:	FY07-09
Total Dollar Amount:	\$ 215,630
Principal Investigator:	William D. Lawson (70%)
Co-Principal Investigator(s):	Charles Newhouse, Priyantha W. Jayawickrama

## SPONSORED RESEARCH GRANTS &amp; PROJECTS, CONTINUED

Title: Geotechnical Engineering Training  
 Sponsor: Texas Department of Transportation  
 Performance Period: FY07-08  
 Total Dollar Amount: \$ 48,640  
 Principal Investigator: William D. Lawson (42%)  
 Co-Principal Investigator(s): Priyantha W. Jayawickrama, Sanjaya Senadheera

Title: Fundamentals of Ethics  
 Sponsor: Texas Department of Transportation  
 Performance Period: FY06-07  
 Total Dollar Amount: \$ 28,600  
 Principal Investigator: William D. Lawson (100%)  
 Co-Principal Investigator(s):

Title: Ethics Instruction for International Graduate Students in Engineering  
 Sponsor: National Science Foundation  
 Performance Period: FY06-09  
 Total Dollar Amount: \$ 300,000  
 Principal Investigator: William D. Lawson (50%)  
 Co-Principal Investigator(s): Katherine Austin, Greta Gorsuch, Byron Newberry (Baylor), Tommy Darwin (UT-Austin)

Title: TxDOT Curriculum Development: GEO 102, Geotechnical Applications for Transportation Projects  
 Sponsor: Texas Department of Transportation  
 Performance Period: FY06-07  
 Total Dollar Amount: \$ 28,720  
 Principal Investigator: William D. Lawson (50%)  
 Co-Principal Investigator(s): Priyantha W. Jayawickrama

Title: TxDOT Training: GEO 101, Basic Geotechnical Engineering for Roadways  
 Sponsor: Texas Department of Transportation  
 Performance Period: FY06-07  
 Total Dollar Amount: \$ 16,816  
 Principal Investigator: William D. Lawson (50%)  
 Co-Principal Investigator(s): Priyantha W. Jayawickrama

Title: Fundamentals of Ethics  
 Sponsor: Texas Department of Transportation  
 Performance Period: FY05-06  
 Total Dollar Amount: \$ 26,900  
 Principal Investigator: William D. Lawson (100%)  
 Co-Principal Investigator(s):

Title: Short Term Solutions to "Bleeding" Asphalt Pavements  
 Sponsor: Texas Department of Transportation  
 Performance Period: FY05-06  
 Total Dollar Amount: \$ 117,667  
 Principal Investigator: William D. Lawson (34%)  
 Co-Principal Investigator(s): D. Michael Leaverton, Sanjaya Senadheera

Title: TxDOT Curriculum Development: GEO 101, Basic Geotechnical Engineering for Roadways  
 Sponsor: Texas Department of Transportation  
 Performance Period: FY05-06  
 Total Dollar Amount: \$ 21,299  
 Principal Investigator: William D. Lawson (50%)  
 Co-Principal Investigator(s): Priyantha W. Jayawickrama

Title: TxDOT Training: GEO 101, Basic Geotechnical Engineering for Roadways  
 Sponsor: Texas Department of Transportation  
 Performance Period: FY05-06  
 Total Dollar Amount: \$ 22,078  
 Principal Investigator: William D. Lawson (50%)  
 Co-Principal Investigator(s): Priyantha W. Jayawickrama

## SPONSORED RESEARCH GRANTS &amp; PROJECTS, CONTINUED

Title:	Stakeholder and Public Perceptions of the Trans-Texas Corridor
Sponsor:	Texas Department of Transportation
Performance Period:	FY04-05
Total Dollar Amount:	\$ 69,972
Principal Investigator:	Susan Banducci
Co-Principal Investigator(s):	Brian M. Cannon, William D. Lawson (10%), Phillip T. Nash
Title:	Capabilities/Limitations and Recommendations for Transporting TxDOT's Heavy-Duty Off-Road Construction and Maintenance Equipment Fleet
Sponsor:	Texas Department of Transportation
Performance Period:	FY04-05
Total Dollar Amount:	\$ 163,871
Principal Investigator:	William D. Lawson (48%)
Co-Principal Investigator(s):	D. Michael Leaverton
Title:	Improving Edge Repair and Stabilization
Sponsor:	Texas Department of Transportation
Performance Period:	FY02-03
Total Dollar Amount:	\$ 196,536
Principal Investigator:	William D. Lawson (30%)
Co-Principal Investigator(s):	M. Shabbir Hossain, Sanjaya Senadheera
Title:	Professional Ethics Workshops
Sponsor:	Texas Department of Transportation
Performance Period:	FY99-01 (renewed contract)
Total Dollar Amount:	\$ 132,122
Principal Investigator:	Jimmy H. Smith
Co-Principal Investigator(s):	William D. Lawson (50%)
Title:	Headquarters - National Institute for Engineering Ethics
Sponsor:	National Institute for Engineering Ethics
Performance Period:	FY00-01
Total Dollar Amount:	\$ 42,362
Principal Investigator:	Jimmy H. Smith
Co-Principal Investigator(s):	William D. Lawson (50%)
Title:	NIEE Video Project: A Sequel to Gilbane Gold
Sponsor:	National Science Foundation
Performance Period:	FY02-05
Total Dollar Amount:	\$ 265,661
Principal Investigator:	Jimmy H. Smith
Co-Principal Investigator(s):	William D. Lawson (50%)
Title:	Web-based Engineering Ethics Learning Modules for the College of Engineering
Sponsor:	Teaching, Learning & Technology Center: Texas Tech University
Performance Period:	FY01
Total Dollar Amount:	\$ 5,000
Principal Investigator:	William D. Lawson (50%)
Co-Principal Investigator(s):	Jimmy H. Smith

## PATENTS, PATENT APPLICATIONS, AND LICENSE AGREEMENTS

Dr. Lawson has been involved in two initiatives through the Texas Tech University Office of Technology Commercialization to provide research in support of independent patents for new/emerging technology:

- 2011. Mason Greenstar BLOX. Commercial Development Grant for research to determine the structural and thermal properties of Mason Greenstar BLOX.
- 2012. Aquamax Devco Ultra High Pressure/Low Volume Water Cutter. Physical review to evaluate the efficacy of the Aquamax Devco UHP/LV water cutter for treatment of flushed pavement surfaces.



**SUBMITTED/UNDER REVIEW (REFEREED JOURNAL PUBLICATIONS)**

- Yuepeng Cui, D. Liang, S. Senadheera, W. Lawson, L. Song, A. Nejat (2016). "A Case Study of Expenditure on Snow and Ice Control for Roadway Maintenance." *ASCE Journal of Transportation Engineering*. Resubmittal pending 02/12/2016.
- Morse, S., Wood, T., Lawson, W. (2016) "CULVLR: A Software Program for Load Rating Reinforced-Concrete Box Culverts." *ASCE Journal of Computing in Civil Engineering*. Re-submittal pending 02/12/2016.
- Smith, M. W., Lawson, W., Ertas, A., Surlles, J., Tate, D., Morse, S. (2016) "Measuring the Maintainability of Commercial Off-the-Shelf (COTS) Based Systems: A Complexity Approach." Elsevier: *Journal of Systems and Software*. Re-submittal pending 02/12/2016.
- Jayawickrama, P., W. Lawson, T. Wood, J. Surlles. (2016) "Pullout Resistance Factors for Ladder-like Strip Reinforcements Used in MSE Wall Construction" *Canadian Geotechnical Journal*. Re-submittal pending 02/12/2016.
- Surlles, J., Seo, H. Y., Lawson, W., Jayawickrama, P., Moghaddam, R., Doerzbacher, J. (2016) "Sample Size Determination for Resistance Factors in LRF." *International Journal of Geomechanics, ASCE*. Submitted 12/31/2015. Under review.
- Wood, T., Lawson, W., Jayawickrama, P., Surlles, J. (2016) "Inextensible Pullout Behavior of Steel Earth Reinforcements." *Journal of Geotechnical and Geoenvironmental Engineering*. Submitted 12/22/2015. Under review.
- Lawson, W., Terrell, E., Surlles, J., Moghaddam, R., Seo, H. Y., Jayawickrama, P., Surlles, J. (2016) "Correlation of Texas Cone Penetration and Standard Penetration Test Blowcount Values." *Geotechnical Testing Journal, ASTM*. Submitted 12/16/2015. Under review.
- Seo, H. Y., Moghaddam, R., Lawson, W. (2016) "Assessment of Methods for Construction of an Equivalent Pile Head Load-Settlement Curve from O-Cell Test Data." *Soils and Foundation, Elsevier*. Submitted 12/03/2015. Under review.
- Wood, T., Lawson, W., Surlles, J., Jayawickrama, P., Seo, H. Y. (2016) "Improved Load Rating of Reinforced Concrete Box Culverts using Depth-Calibrated Live Load Attenuation." *Journal of Bridge Engineering, ASCE*. Submitted 11/25/2015. Under review.

**IN PRESS/ACCEPTED FOR PUBLICATION (REFEREED JOURNAL PUBLICATIONS)**

- Ertas, Atila, Michael W. Smith, Derrick Tate, William D. Lawson, and T.B. Baturalp (2015). "Complexity of System Maintainability Analysis Based on the Interpretive Structural Modeling Methodology: Transdisciplinary Approach." *Journal of Systems Science and Systems Engineering*. Manuscript CN112983/N. Notice of acceptance: 05/11/2015.

**REFEREED JOURNAL PUBLICATIONS**

- Lawson, W., Goehl, D., and Senadheera, S. (2015). Implementation of Ultra High Pressure Water Cutting for Treatment of Flushed Chip Seals in the U.S." *International Journal of Pavement Engineering*, 2481, 75-82. DOI: 10.1080/10298436.2015.1036867.
- Lawson, W., Senadheera, S., Surlles, 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
- 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.
- Jayawickrama, P., Lawson, W., Wood, T., Surlles, 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.
- Lawson, W., Jayawickrama, P., Wood, T., Surlles, 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.
- 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*.
- Lawson, William D., Priyantha W. Jayawickrama, Timothy A. Wood, and James G. Surlles (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.

## REFEREED JOURNAL PUBLICATIONS, CONTINUED

- Jayawickrama, Priyantha W., William D. Lawson, Timothy A. Wood, and Asitha Senanayake (2012). "Effect of Skewing and Splaying on Pullout Capacity of Steel Reinforcements in Mechanically Stabilized Earth Structures." *Transportation Research Record: Journal of the Transportation Research Board No. 2310, Transportation Research Board of the National Academies*, Washington DC., pp. 81-89, DOI: 10.3141/2310-09.
- Austin, Katherine, Greta Gorsuch, William Lawson and Byron Newberry, "Developing and Designing Online Engineering Ethics Instruction for International Graduate Students," *Instructional Science*, Springer, Netherlands, DOI 10.1007/s11251-010-9162-1, January 12, 2011.
- Derrick Tate, Timothy Maxwell, Atila Ertas, Hong-Chao Zhang, Urs Peter Flueckiger, William Lawson, A. Dean Fontenot, John Chandler, "Transdisciplinary Approaches for Teaching and Assessing Sustainable Design," *International Journal of Engineering Education*, Volume 26, No. 2 (2010), Dublin Institute of Technology: Dublin, Ireland.
- 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.
- 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.
- Lawson, William D., "Fleet Transport for Roadway Maintenance Equipment: National and Texas Perspectives," *Transportation Research Record, Journal of the Transportation Research Board No. 2044, Infrastructure Maintenance*, Transportation Research Board of the National Academies, Washington, DC, 2008, pp. 116-123.
- Lawson, William D., "The Validity and Reliability of FE Exam Scores for Assessment of Individual Competence, Program Accreditation, and College Performance," *Journal of Professional Issues in Engineering Education and Practice*, American Society of Civil Engineers, Vol. 133, No. 4, October 1, 2007, pp. 320-236.
- Lawson, William D. and Hossain, M. Shabbir, "Best Practices for Pavement Edge Maintenance: The Farm-to-Market Road System in Texas," *Transportation Research Record: Journal of the Transportation Research Board*, No. 1989, Vol. 1, Transportation Research Board of the National Academies, Washington, DC, 2007, pp.265-271.
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- Lawson, William D., "A Fair Deal in Fairview?" Ethics Cases in Professional Practice, *Journal of Professional Issues in Engineering Education and Practice*, American Society of Civil Engineers, Vol. 130, No. 4, October 2004, pp.243-245.
- Lawson, William D., "Ye Olde Water Main," Ethics Cases in Professional Practice, *Journal of Professional Issues in Engineering Education and Practice*, American Society of Civil Engineers, Vol. 130, No. 3, July 2004, pp.157-159.
- Lawson, William D., "Plains, Prairies and Porches," Ethics Cases in Professional Practice, *Journal of Professional Issues in Engineering Education and Practice*, American Society of Civil Engineers, Vol. 130, No. 2, April 2004, pp.74-76.
- Lawson, William D., "Was that "Piracy" or "Privacy?" Ethics Cases in Professional Practice, *Journal of Professional Issues in Engineering Education and Practice*, American Society of Civil Engineers, Vol. 130, No. 1, January 2004, pp.2-4.
- Lawson, William D., "Don't Ask, Don't Tell," Ethics Cases in Professional Practice, *Journal of Professional Issues in Engineering Education and Practice*, American Society of Civil Engineers, Vol. 129, No. 4, October 2003, pp.190-193.
- Lawson, William D., "Between a Buck and a Hired Place," Ethics Cases in Professional Practice, *Journal of Professional Issues in Engineering Education and Practice*, American Society of Civil Engineers, Vol. 129, No. 3, July 2003, pp.119-121.

**CONFERENCE PROCEEDINGS PAPERS (NON-REFEREED)**

- Lawson, William D. and Guinn, H.Brent (2010), "Round Table Discussion: Online Ethics Instruction for International and Domestic Engineering Graduate Students," Concurrent Session VI, *Nineteenth Annual Meeting, Association for Practical and Professional Ethics*, Cincinnati, OH, March 6, 2010.
- Lawson, William D., Greta Gorsuch, Thomas Darwin, Katherine Austin, and Byron Newberry (2009), "Round Table Discussion: Overcoming Acculturation Barriers to Ethics Education for International Engineering Graduate Students: An Integrative Approach." 11<sup>th</sup> International Conference on Ethics Across the Curriculum, Rochester Institute of Technology, Rochester, NY, November 12-15, 2009.
- Lawson, William D., "Expansive Soils and Higher Education in Texas (Summary Report)," *Proceedings*, Texas Section, American Society of Civil Engineers, Spring Meeting, Corpus Christi, Texas, April 4, 2003 (Winner, 2003 Best of Session)
- Lawson, William D., "Geotechnical Practice for Expansive Soils in Texas (Summary Report)," *Proceedings*, Texas Section, American Society of Civil Engineers, Spring Meeting, Corpus Christi, Texas, April 4, 2003
- Lawson, William D., "The McDonaldization of Engineering," *Civil Engineering Education Issues 2001, Proceedings of the Third National Congress on Civil Engineering Education*, ASCE National Meeting, Houston, TX, October 2001, Donn Hancher, ed.

**CONFERENCE PROCEEDINGS PAPERS (NON-REFEREED), CONTINUED**

- Lawson, William D., "Professionalism, the Golden Years," *Proceedings*, American Society of Civil Engineers, Fall Meeting, Texas Section, October 2000.
- Lawson, William D., "In Defense of a Little Theory," *Proceedings*, American Society of Civil Engineers, Spring Meeting, Texas Section, April 2000.
- Lawson, William D. "Professionalism, Then and Now." *Proceedings*, Texas Section ASCE Spring Conference, Houston, Texas, April 7, 1997. (Winner, 1997 Best of Session).
- Lawson, William D., Pond, Alan D., Thomasson, David L. "Case Study: Hydro-Collapsible Soils." *Proceedings*, Texas Section ASCE Fall Conference, San Antonio, Texas, September 20, 1996. (Winner, 1996 Best of Session)

**PUBLISHED ARTICLES & PAPERS**

- Lawson, William D., "Conflicts of Interest," Module 6 in ENGINEERING ETHICS 0800, an online ethics course for engineering graduate students, National Science Foundation Research Project EEC-0629344, Beta Test Version, December 2007.
- Lawson, William D., *Program-Level and Content-Level Analysis of FE Exam Data for the Texas Tech University Civil Engineering Program*, Department of Civil Engineering, Texas Tech University, Lubbock, TX, October 2005.
- Lawson, William D., "Continuing Professional Competency: It's the Right Thing to Do," *Engineering Times*, National Society of Professional Engineers, Vol. 24, No. 7, July 2002.
- Lawson, William D., "Research Team Studies Edge Drop-off Issues," *Maintenance Matters Newsletter*, TxDOT Maintenance Division, Spring 2002.
- Lawson, William D., "Web-Based Engineering Ethics Education Program," *TexethicS Newsletter*, Murdough Center for Engineering Professionalism, Volume 12, No. 1, Summer 2002.
- Lawson, William D., "Ethics of Employee Retention," Plenary Session Fact Sheet, American Society of Civil Engineers, Spring Meeting, Texas Section, March 2001.
- Lawson, William D., "Continuing Professional Competency: If at First You Don't Succeed..." *Texas Professional Engineer*, Texas Society of Professional Engineers, Vol. 61, No. 2, September/ October 2001.
- Smith Jimmy H. and Lawson, William D., "Guidance for Civil Engineering Students on Licensing and Ethical Responsibilities from the American Society of Civil Engineers," American Society of Civil Engineers, September 2001.
- Lawson, William D., "Ethics for the Real World: Toward a Workable Definition of Ethics for Engineers," *Texas Professional Engineer*, Volume 58, No. 5, published by the Texas Society of Professional Engineers, May/June 1999.

**THESIS & DISSERTATION**

- Lawson, William D., *Trust and trustworthiness in professional-client relationships: procurement of architect/engineer services by Texas municipalities*, Ph.D. dissertation, Department of Civil Engineering, Texas Tech University, December 2004.
- Lawson, William D., "Wave Equation Analysis of Pile Driving in Gravel," Master's Thesis, Department of Civil Engineering, Texas A&M University, December 1984.

## CONSULTING ENGINEERING PRACTICE

### TECHNICAL SUB-SPECIALTY EXPERTISE

**Structural Distress/Failure Investigations.** Dr. Lawson has conducted failure investigations for industrial facilities, commercial and institutional structures, retaining walls, single-family and multi-family residential properties, flexible and rigid pavements, and other structures. The mechanisms associated with expansive soil movement have been a significant factor in many of these studies.

Dr. Lawson served on the Expert Evaluation and Forensic Study Subcommittee of the Residential Foundation Committee of the Texas Board of Professional Engineers. Convened by the Texas Board of Professional Engineers in October 1997, this committee addressed technical, professional, and consumer issues associated with the design and evaluation of residential foundation structures. Dr. Lawson served on the Steering Committee for the Texas Section ASCE Residential Foundation Committee in 2001. The ASCE Committee published two guidance documents with regard to residential foundations: "Guidelines for the Evaluation and Repair of Residential Foundations" and "Recommended Practice for the Design of Residential Foundations."

**Foundation Investigations/Design.** Dr. Lawson has provided geotechnical recommendations for a myriad of foundation systems ranging from residential construction to industrial wastewater treatment plants. Representative project experience includes geotechnical investigations for structures and pavements at the \$500 million American Airlines Maintenance Base at Alliance Airport, Fort Worth, Texas; \$15 million channelization improvements to Five Mile Creek, Dallas, Texas; and \$8 million expansion/renovation at Methodist Medical Center, Dallas, Texas. This experience has focused primarily on proper structural load support in clay and rock geology, and in addressing the adverse effects of expansive soils.

**Pavement Condition Survey/Pavement Design.** Dr. Lawson's pavement design experience includes streets and pavements for municipalities, industrial facilities, international and municipal airports, commercial and residential properties, and parks. He has performed condition surveys and developed plans and specifications for pavement rehabilitation projects nationwide.

**Expansive Soils.** Dr. Lawson has worked extensively with expansive soils -- identification, evaluation/prediction of swell movement, chemical stabilization, heave mitigation procedures, moisture control, and development of foundation and pavement design alternatives.

**Erosion Control/Retaining Structures.** Erosion control experience includes studies associated with geotechnical aspects of erosion control; earthwork, slope stability, retaining walls, geotextile fabrics, gabion walls, and liners.

**Geotechnical Site Characterization for Challenging Sites.** Dr. Lawson has developed and implemented site characterization strategies for difficult/challenging sites including congested areas (downtown Dallas), confined areas (interior of residential and commercial structures), and geologically diverse areas (faults, previous development, and environmentally-contaminated areas).

**Municipal Solid Wastes and Landfills.** Dr. Lawson experience includes construction quality assurance services for several municipal solid waste landfills. This consisted of preparation of reports documenting the construction of RCRA Subtitle D composite liner systems. Dr. Lawson has also provided geotechnical design services associated with the landfill permit/design process, including characterization of Subchapter T closed municipal solid waste landfills.

**Testing and Inspection.** Construction materials experience includes evaluation of site preparation, select fill placement, pavement base and subbase design, chemical stabilization, soil compaction, hydraulic conductivity, and quality control/quality assurance testing of numerous types of geosynthetic materials.

### CLIENT RELATIONS & BUSINESS DEVELOPMENT

Dr. Lawson's marketing and business development activities included serving as National Client Manager for Greyhound Lines, Inc., Dallas, TX, where fees grew from <\$50,000/year to over \$400,000/year in a 2-year time frame. Dr. Lawson also served as National Client Manager for Promus Hotel Corporation, Memphis, TN, where net fees grew from <\$10,000/year to over \$50,000/year in a 2-year time frame. As part of the key client contact team for Waste Management of Texas, Dr. Lawson helped generate over \$1,000,000 in consulting fees over a 3-year period. As group leader for the Health Care Market Segment in the Facilities Division of the Dallas Office of Law Engineering, Dr. Lawson successfully identified and developed new clients in the health care area. Dr. Lawson's most successful marketing efforts have resulted from providing quality work and developing solid personal client relationships.

### PROJECT MANAGEMENT

Project management activities have focused, first and foremost, on meeting established deadlines and budgets. To accomplish this, Dr. Lawson has been involved in all aspects of project delivery including work scope development, proposal writing, presentations, negotiation of terms and conditions, resource allocation, execution of the work, reporting, quality control, invoicing, accounts receivable, and project closeout. Focusing on the need for timely communication, Dr. Lawson developed and implemented real-time project status reports for major projects in order to continuously apprise clients and management of the project budget, schedule, and work scope changes.

In his role as National Client Manager for Law Engineering, Dr. Lawson serviced clients by selecting and coordinating teams of qualified professionals throughout the United States who could deliver consistent, quality results, on time and within budget. Project types have built upon Dr. Lawson's core expertise in foundations and pavements and also included structural analyses, environmental remediation, property acquisition studies, property condition surveys, indoor air quality, roofing rehabilitation, water-proofing, and painting/coating studies.

#### RESPONSIBLE CHARGE/ MENTORING

Dr. Lawson has provided technical oversight and project management guidance for several engineers-in-training throughout the nation. In addition to serving as mentor, Dr. Lawson was in responsible charge of projects for the following persons and served as a professional engineering licensure reference for them:

Name	PE No.	State	Discipline	Employer	Certified
Suranga Gunerathne	Pending	TX	Civil	Texas Tech University	TBD
Yinka Oshe	Pending	TX	Petroleum	Selman Geo Services	TBD
Rozbeh Moghaddam	119046	TX	Civil	Texas Tech University	12/16/2014
Andrew Allen Tubb, P.E.	116111	TX	Civil	Texas Department of Transportation	12/04/2013
Michael D. Roland, P.E.	96043	TX	Civil	Alliance Geotechnical Group	07/07/2005
Alicia Guadalupe Velasco-Abel, P.E.	88668	TX	Civil	Qore Property Sciences	07/20/2001
James M. Delano, P.E.	26265	GA	Civil	Mactec Engineering & Consulting	07/07/2000
Noosha Pakzaban Smith, P.E.	85595	TX	Civil	HBC/Terracon	07/23/1999
J. DeAllen Norris, P.E.	83556	TX	Civil	Mactec Engineering & Consulting	02/18/1998

#### SELECTED CONSULTING REPORTS

Dr. Lawson has authored and co-authored hundreds of technical project reports during his more than 30 years of consulting engineering practice. The following sample (< 5 percent) provides a representative range of this work by project type, service, location, supervisory role, and year.

- Lawson, William D. (2012), "Report of Physical Review of the MR-1, Ultra High Pressure/Low Volume Water Cutter Technology, AquaMax Devco, Ltd., William D. Lawson, P.E., Ph.D., Consulting Engineer, Project No. 12-027, November 2012.
- Lawson, William D. (2011), "Report of Engineering Services, Structural Evaluation of The Pavilion at Wagner Park, 26<sup>th</sup> Street and Elgin Avenue, Lubbock, TX." William D. Lawson, P.E., Ph.D., Consulting Engineer, Project No. 10-024, March 2011.
- Lawson, William D. (2010), "Allstate Insurance Co. v. Donan Engineering Company, Inc. et al." USDC for Southern District of Indiana, New Albany Division, William D. Lawson, P.E., Ph.D., Consulting Engineer, Project No. 09-023, February 2010.
- Lawson, William D. (2008), "Report of Geotechnical Engineering Services," Spring Creek Ranch, Kent County, TX, William D. Lawson, P.E., Ph.D., Consulting Engineer, Project No. 08-021, July 2008.
- Lawson, William D. (2007), "Report of Expert Opinion Relative to Cause No. 200646041," *CCE, Inc. v. PBS&J Construction Services, Inc., et al.*, William D. Lawson, P.E., Ph.D., Consulting Engineer, Project No. 07-020, October 2007.
- Lawson, William D. (2006), "Plaintiff Short-Elliott-Hendrickson's Expert Witness Disclosures," *Short-Elliott-Hendrickson, Incorporated, Plaintiff, v. Greg J. Homes, Inc., et al.*, City of Cannon Falls, Minnesota, William D. Lawson, P.E., Ph.D., Consulting Engineer, Project No. 06-017, October 2006.
- Lawson, William D. (2005), *Report of Engineering Services*, June & Keith Patzer Residence, Floydada, Texas, William D. Lawson, P.E., Ph.D., Consulting Engineer, Project No. 05-014, June & Keith Patzer, April 2005.
- Lawson, William D. (2004), *Summary of Findings, Basement Flooding Study*, Clyde & Susan Hendrick Residence, Lubbock, Texas, William D. Lawson, P.E., Consulting Engineer, Project No. 03-013, Clyde & Susan Hendrick, June 2004.
- Lawson, William D. (2003), and Clark, Joel R., *Report of Engineering Services*, Lady Raider Softball Field, Texas Tech University, Lubbock, Texas, OLDEN Professional Services, Project No. E0303, Texas Tech University Facilities, Planning & Construction, December 2003.
- Dolovics, Robert and Lawson, William D. (1998), *Contract Documents for Roof Rehabilitation and Repair*, Greyhound Terminal, Houston, Texas, Law Engineering and Environmental Services, Inc., May 1998.
- DeLano, James and Lawson, William D. (1998), *Closed Municipal Landfill Final Cover System Monitoring*, Bergstrom Air Force Base, Austin, Texas, Law Engineering and Environmental Services, Inc., March 1998.

## SELECTED CONSULTING REPORTS, CONTINUED

- Norris, J. DeAllen and Lawson, William D. (1997), *Contract Documents and Construction Administration Services for Roof Re-Painting*, Homewood Suites, Irving, Texas, Law Engineering and Environmental Services, Inc., December, 1997.
- Perez, Jorge and Lawson, William D. (1997), *Leaking Underground Storage Tank Remediation Services*, Greyhound Terminal, Tallahassee, Florida, Law Engineering and Environmental Services, Inc., November 1997.
- Dunjshah, Mike and Lawson, William D. (1997), *Contract Documents for Parking Garage Deck Waterproofing and Repair*, Greyhound Bus Maintenance Facility, East Los Angeles, California, Law Engineering and Environmental Services, Inc., September 1997.
- Norris, J. DeAllen and Lawson, William D. (1997), *Report of Geotechnical Exploration*, Fuel Farm Expansion/Renovation, Dallas Fort Worth International Airport, Texas, Law Engineering and Environmental Services, Inc., September, 1997.
- Velasco-Abel, Alicia and Lawson, William D. (1997), *Report of Geotechnical Exploration*, American Red Cross Headquarters, Dallas, Texas, Law Engineering and Environmental Services, Inc., August 1997.
- Ferrell, Tim, Bob Lea and William D. Lawson (1997), *Contract Documents and Construction Administration Services for Mold Decontamination and Interior Finish Restoration*, Palm Beach Gardens Doubletree Hotel, West Palm Beach, Florida, Law Engineering and Environmental Services, Inc., July, 1997.
- Kirkland, Elizabeth and Lawson, William D. (1997), *Contract Documents for Pavement Rehabilitation and Repair*, Greyhound Terminal, Memphis, Tennessee, Law Engineering and Environmental Services, Inc., April 1997.
- Lawson, William D. and Thomasson, David L. (1997), *Greyhound Pavement Design Guideline Manual, Version 2.0*, Greyhound Terminal Facilities, Continental United States, Law Engineering and Environmental Services, Inc., March 1997.
- Pons, Fernando and Lawson, William D. (1996), *Report of Geotechnical Exploration*, 138KV Line, Central and Southwest Services, Coleman, Texas, Law Engineering and Environmental Services, Inc., September 1996.
- Lawson, William D., and Norris, J. DeAllen (1996), *Design and Construction Administration Services for Building Stability and Stream Bank Erosion Remediation*, Cedar Creek Apartments, Arlington, Texas, Law Engineering and Environmental Services, Inc., May 1996.
- Lawson, William D., Paul D. Smith and Conilee Hennesdorf (1996), *Design and Construction Administration Services for Crawl Space and Site Grading Remediation*, Santa Rosa at Las Colinas, Irving, Texas, Law Engineering and Environmental Services, Inc., May 1996.
- Lawson, William D. (1995), *Report of Geotechnical Drilling Services*, Fiber Optic Cable Installation, 2323 Bryan Street to 4316 Bryan Street, Dallas, Texas, Law Engineering and Environmental Services, Inc., October 1995.
- Lawson, William D., Noosha Pakzaban and Michael O'Grady (1995), *Geosynthetic Clay Liner Evaluation Report*, Cell 2-Section 1, Comal County Landfill, New Braunfels, Texas, Law Engineering and Environmental Services, Inc., October 1995.
- Lawson, William D. and Thomasson, David L. (1995), *Report of Geotechnical Exploration*, Methodist Medical Center Emergency Room Expansion/Renovation, Dallas, Texas, Law Engineering and Environmental Services, Inc., October 1995.
- Lawson, William D. and Smith, Douglas L. (1995), *Forensic Structural & Foundation Investigation*, Il Nacon Plaza Shopping Center, San Antonio, Texas, Law Engineering and Environmental Services, Inc., August 1995.
- Lawson, William D., Alan D. Pond and David L. Thomasson, (1995), *Foundation Rehabilitation-Compaction Grouting Design and Construction Administration Services*, Hampton Inn, Albuquerque, New Mexico, Law Engineering and Environmental Services, Inc., February 1995.
- Lawson, William D., Noosha Pakzaban and Michael O'Grady (1994), *Flexible Membrane Liner Evaluation Report*, Phase 2-Covel Gardens Landfill, San Antonio, Texas, Law Engineering and Environmental Services, Inc., October 1994.
- Lawson, William D., Christopher Lutz and Telfryn John (1994), *Soil Liner Evaluation Report*, Hillside Landfill, Sherman, Texas, Law Engineering and Environmental Services, Inc., April 1994.
- Lawson, William D. and Palmer, Michael W. (1994), *Submittal for Geotechnical Instrumentation*, Sanitary Sewer Interceptor, Phase I, North Dallas County Water Supply Corporation, City of Farmers Branch/Town of Addison Joint Venture, Law Engineering and Environmental Services, Inc., February 1994.
- Lawson, William D., Carl V. Anderson and Patrick D. Bolton, (1993), *Pavement Evaluation and Rehabilitation*, Kmart Store No. 7585, Grandview, Missouri, Law Engineering and Environmental Services, Inc., October 1993.

## SELECTED CONSULTING REPORTS, CONTINUED

- Lawson, William D., Alan D. Pond and David L. Thomasson, (1993), *Forensic Structural & Foundation Investigation*, Hampton Inn, Albuquerque, New Mexico, Law Engineering and Environmental Services, Inc., June 1993.
- Lawson, William D. (1992), *Home Owners Warranty Structural Inspection*, Residence – Tamalpais Drive, Dallas, Texas, Master Consultants, November 1992.
- Lawson, William D. (1992), *Structural Inspection and Plan of Repair*, Residence – 1818 Winter Knoll, Houston, Texas, Master Consultants, October 1992.
- Lawson, William D. (1992), *Phase I Environmental Site Assessment*, 69.7 Acre Gifford-Hill Tract, Irving, Texas, Trinity Engineering Testing Corporation, September 1992.
- Lawson, William D. (1992), *Report of Geotechnical Investigation*, Wagon Wheels Trail Bridge, Rickets Branch at Five Mile Creek, City of Dallas, Dallas, Texas, Trinity Engineering Testing Corporation, July 1992.
- Lawson, William D. (1992), *Report of Geotechnical Investigation*, Southwestern Bell Mobile Systems 190-Foot Self-Supporting Tower, Commerce, Texas, Trinity Engineering Testing Corporation, June 1992.
- Lawson, William D. (1992), *Report of Geotechnical Investigation*, Valor Farm, Pilot Point, Texas, Trinity Engineering Testing Corporation, April 1992.
- Lawson, William D. (1991), *Report of Geotechnical Investigation*, Lancaster Airport Pavement Rehabilitation, Lancaster, Texas, Trinity Engineering Testing Corporation, November 1991.
- Lawson, William D. (1991), *Report of Geotechnical, Structural & Subsurface Investigations*, Broadacres Project TEX 38-1 and Sunrise Project TEX 38-2, Housing Authority of the City of Bonham, Bonham, Texas, Trinity Engineering Testing Corporation, June 1991.
- Lawson, William D. and Hartmann, Fred H. (1991), *Light Pole Failure Inspection*, Campbell Green Park, Dallas, Texas, Trinity Engineering Testing Corporation, February 1991.
- Lawson, William D. (1990), *Slope Stability Investigation & Remedial Design Recommendations*, Gibbons Residence, 5200 Hillcrest Drive, Waco, Texas, Trinity Engineering Testing Corporation, December 31 1990.
- Lawson, William D. (1990), *Report of Geotechnical Investigation*, Five Mile Creek Channel Improvements, Dallas, Texas, Trinity Engineering Testing Corporation, September 1990.
- Lawson, William D. (1990), *Report of Geotechnical Investigation*, Industrial Waste Treatment Facility, American Airlines Maintenance Base, Alliance Airport, Fort Worth, Texas, Trinity Engineering Testing Corporation, September 1990.
- Lawson, William D. and Davis, Robert C. (1990), *Report of Geotechnical Investigation*, Runway 13L/31R Rehabilitation, Dallas, Texas, Trinity Engineering Testing Corporation, June 1990.
- Lawson, William D. (1990), *Report of Geotechnical Investigation*, Vertical Ground Source Heat Exchanger, Dyess Air Force Base, Abilene, Texas, Trinity Engineering Testing Corporation, January 1990.
- Lawson, William D. and Holloway, Robert H. (1989), *Report of Geotechnical Investigation*, Wastewater Treatment Plant, Gatesville, Texas, Trinity Engineering Testing Corporation, December 1989.
- Lawson, William D. and Harrell, W. Duane (1989), *Report of Geotechnical Investigation*, Seymour, Jayton, Westover, & Robertson Substation Sites, Brazos Electric Power Cooperative, Trinity Engineering Testing Corporation, May 1989.
- Lawson, William D. and Harrell, W. Duane (1988), *Report of Geotechnical Investigation*, South Llano River State Park, Kimble County, Texas, Trinity Engineering Testing Corporation, September 1988.
- Lawson, William D. (1988), *Report of Gypsum Mine Location*, Cogeneration Facility, United States Gypsum Plant, Sweetwater, Texas, Trinity Engineering Testing Corporation, July 1988.
- Lawson, William D. and Harrell, W. Duane (1987), *Reinforcing Steel Inspections*, Engineering and Computer Science Building, Baylor University, Waco, Texas, Trinity Engineering Testing Corporation, August 1987.
- Lawson, William D. (1986), *Geotechnical Drilling and Sampling*, Erosion Control Dams, Soil Conservation Service, Red Deer Creek Watershed, Pampa, Texas, Trinity Engineering Testing Corporation, October 1986.
- Lawson, William D. and Davis, Robert C. (1986), *Report of Geotechnical Investigation*, UPS Parcel Distribution Facility, Abilene, Texas, Trinity Engineering Testing Corporation, March 1986.

SELECTED CONSULTING REPORTS, CONTINUED

Lawson, William D., Barbara Gaidusek-Isenhower, and Robert C. Davis, (1986), *Report of Geotechnical Investigation*, Proposed Sanitary Landfill, Ballinger, Texas, Trinity Engineering Testing Corporation, March 1986.

Lawson, William D. and Yates, Lewis, B. (1985), *Report of Preliminary Geotechnical Investigation*, Williamson Creek Wastewater Interceptor, Austin, Texas, Trinity Engineering Testing Corporation, June 1985.

Lawson, William D. and Holloway, Robert H. (1985), *Report of Geotechnical Investigation*, Habitat Center, Austin, Texas, Trinity Engineering Testing Corporation, April 1985.

## SERVICE

### PROFESSIONAL SOCIETIES

#### National Level

- Member, Executive Board, National Institute for Engineering Ethics (2011 to present)
- Corresponding Editor, ASCE *Journal of Professional Issues in Engineering Education and Practice* (1999 to present)
- Member, ASCE Education and Practice Publications Committee (1999 to present)
- Member, NSPE Board of Ethical Review (BER) (2001 to 2007)
  - BER Chair, 2003-04
- Advisory Board Member, Online Ethics Center, Case Western Reserve University (2000 to 2007)
- Director, Applied Ethics Case of the Month Program, NIEE (2001 to 2006)

#### State Level

- Texas Society of Professional Engineers
  - Member, Texas Engineering Challenge State Committee (1999-2000)
  - Region 1 Coordinator, Texas Engineering Challenge Competition (1998-2000)
- ASCE Texas Section
  - Chair, Education Committee (1999-2001)

#### Local Level

- Member, South Plains Chapter, TSPE
  - President (2009-10)
  - 1<sup>st</sup> Vice President (2008-09)
  - 2<sup>nd</sup> Vice President (2007-08)
  - Secretary (2006-07)
  - Director (1999-2000, 2005-06)
  - Professional Practice Conference Chair (2000)
  - Scholarship Committee Member (1999-2001)
- Member, Caprock Branch, ASCE

#### University Level

- Faculty Advisor, Texas Tech University Student Chapter, TSPE (1998 to present)

### TECHNICAL COMMITTEES

- Member, Engineering Behavior of Unsaturated Soils, Committee AFP60, Transportation Research Board (2010 to 2013)
- Member, Technical Advisory Panel, Research Management Committee 1 (Pavements), Texas Department of Transportation (2006 to 2012)
- Member, Residential Foundation Oversight Committee, Texas Section, American Society of Civil Engineers (2008 to present)
- Member, Advisory Panel, Ethics Education in Science and Engineering, National Science Foundation, Arlington, VA (2005)
- Member, AAA Foundation, Safety Impacts of Pavement Edge Drop-off Advisory Panel (2004-05)
- Member, Expert Evaluation and Forensic Study Subcommittee of the Residential Foundation Committee of the Texas Board of Professional Engineers (1997-98)
- Member, Steering Committee for the Texas Section ASCE Residential Foundation Committee (2001).

### UNIVERSITY COMMITTEES

#### University Level

- Online Course Evaluations: Product Assessment Team, Office of the CIO, Texas Tech University (2013 to present)
- Texas Tech University Ethics Center Advisory Committee, Whitacre College of Engineering Representative (2010 to 2014)
- Member, Academic Integrity Task Force, Implementation Committee, "Do the Right Thing: A Campus Conversation on Ethics (2005-06)
- Advisor, Texas Tech University Quality Enhancement Plan Committee (2004)
- Advisor, Teaching, Learning & Technology Center WebCT Development Committee (2003-04)



## UNIVERSITY COMMITTEES, CONTINUED

### College Level

- CEE Representative, Distance Learning Committee (2013-2014)
- Reader, *Order of the Engineer* Ceremony
- Fundamentals of Engineering Exam Initiative for the College of Engineering
  - Maintain a comprehensive FE Exam Website on the College of Engineering Server (1999 to present)
  - Conduct the Mock FE Exam (1999 to present)
  - Conduct the Engineering Tools Exam (2000)
- Instructor, "Bridge" Competition, August 1999
- Invited Speaker, Career Fair, October 1999, Topic: "Getting Licensed"
- Invited Presentation, Texas Association of Minority Engineers, Spring and Fall 1999

### Department Level

- Member, 2015-16 CECE Chair Search Committee
- Member, CECE Chair Internal Advisory Committee (2014 to present)
- Member, CECE "Research Active Designation" (Ad Hoc) Committee (2015)
- Member, Graduate Exams (Ad Hoc) Committee (2014 to present)
- Member, 2013-14 Transportation Faculty Search Committee
- Member, 2012-13 Transportation Faculty Search Committee
- Member, 2011-12 Geotechnical Faculty Search Committee
- Member, Curriculum Committee (2009 to present)
- Member, FE Exam Committee (1999 to present)
- Member, Distance Education Committee (2001-2009)
- Member, Recruiting and Public Relations Committee (1999-2006)
- Emcee, Civil Engineering Academy Banquet (1999)

## PUBLIC RELATIONS

### Magazine Articles/TV Appearances

- Interviewed by Eva Kaplan-Leiserson for feature article on "The Evolution of the FE," to be published in *PE Magazine*, the magazine of the National Society of Professional Engineers. Interviewed March 2015
- Quoted in "The Commoditization of Engineering Work," *Engineering, Inc.*, American Council of Engineering Companies, Washington, DC, 2015
- Quoted in "Student Chapter Brings Ethics to Life," *PE: The Magazine for Professional Engineers*, National Society of Professional Engineers, Alexandria, VA, December 2011
- Quoted in "Few and Far Between," *PE: The Magazine for Professional Engineers*, National Society of Professional Engineers, Alexandria, VA, October 2011
- Featured in article, "Texas PE, Educator Honored," *PE: The Magazine for Professional Engineers*, National Society of Professional Engineers, Alexandria, VA, August/September 2011
- Quoted in "Moonlighting Raises Questions of Loyalty," *NSPE Engineering Times*, February 2004
- Quoted in "Responsible Charge: Every PE's Obligation," *NSPE Engineering Times*, August/September 2004
- Quoted in "Enron's Woes and the High Cost of Compromising Ethics," *IEEE USA Today's Engineer*, June 2002
- KTXT television interview to discuss engineering ethics & professionalism. Program aired October 12, 2002.

#### Host/ Co-Host Visiting Scholars

- Robert Simpson, MS, Western Regional Manager & Paul Bullock, PhD, PE, Principal Engineer, Loadtest USA, Fugro Consultants, Inc., Gainesville, FL (February 2014)
- Jaemin (Jay) Hong, President/Chief Representative, POSCO E&C Houston Office & POSCO Delegation (South Korea), (December 2013)
- Fernando A. Marinho, Ph.D. Associate Professor in the Department of Engineering of Structures and Geotechnical, Polytechnic School of the University of São Paulo, Brazil (October 2009)
- Ton Meijknecht, Campus Chaplain, Delft University of Technology, Delft, The Netherlands (May 5, 2003)
- Barry Lopez, Texas Tech University Scholar, National Book Award winner and Author of Arctic Dreams (September 2003)
- Faculty Delegation from University of Bologna, Italy (Fall '00)

#### CIVIC ORGANIZATIONS/ COMMUNITY SERVICE

- Active support, Lubbock Area United Way
- Active support, Louise Hopkins Underwood Center for the Arts
- Active support, 100 Black Men of Lubbock
- Active support, Relay for Life
- Active support, East Lubbock Community Alliance
- Active support, Parent Life

#### COMMUNITY SERVICE

- Member, Southcrest Baptist Church, Lubbock, Texas (2014-present)
  - Substitute-teach Sunday School Class (2011-12)
- Member, Turning Point Community Church, Lubbock, Texas (2007-2011)
- Member, First Baptist Church, Lubbock, Texas (1998-2006)
  - Team-teach "Young 40s" Sunday School Class (2002-03)
  - Substitute-teach Men's Sunday School Class (2005)
- Member, Roscoe Wilson Elementary PTA, Lubbock, TX (1999-2000)
- Member, JT Hutchinson Junior High PTA, Lubbock, TX (2001-03)
- Member, Lubbock High School PTA, Lubbock, TX (2004-06)