#### **CURRICULUM VITAE**

#### WILLIAM R. BURKETT, Ph.D., P.E.

College of Engineering Texas Tech University Box 43107 Lubbock, Texas 79409-3107

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# **Credentials:**

Doctor of Philosophy: The University of Texas at Austin, Austin, Texas, 1992.

Master of Engineering: Civil Engineering, Texas A&M University, College Station, Texas, 1984.

Bachelor of Science: Civil Engineering, Lamar University, Beaumont, Texas, 1981.

Bachelor of Science: Industrial Technology, Lamar University, Beaumont, Texas, 1975.

Associate of Applied Science: Drafting Technology, Lamar University, Beaumont, Texas, 1972.

Registered Professional Engineer: Texas, 1997 - present, No. 81893.

## **Articles - National Peer Reviewed Journals:**

- 1. Bai, Y., Kim, S. H., and Burkett, W. R., "Enhancing the Capability of Rapid Bridge Replacement after Extreme Events," *Engineering, Construction, and Architectural Management*, Vol. 14, No. 4, 2007, pp 375 386.
- 2. Bai, Y., and Burkett, W. R., "Rapid Bridge Replacement: Processes, Techniques, and Needs for Improvements," *ASCE Journal of Construction Engineering and Management*, Vol. 132, No. 11, November, 2006, pp 1139-1147.
- 3. Bai, Y., Burkett, W. R., and Nash, P. T., "Rapid Bridge Replacement under Emergency Situation: Case Study," *ASCE Journal of Bridge Engineering*, Vol. 11, No. 3, May-June, 2006, pp 266-273.
- 4. Bai, Y., Burkett, W. R., and Nash, P. T., "Lessons Learned from an Emergency Bridge Replacement Project," *ASCE Journal of Construction Engineering and Management*, Vol. 132, No. 4, April, 2006, pp 338-344.
- 5. Metin, M. M. and Burkett, W. R., "Formulation of New Development Length Equation for 0.6-Inch Prestressing Strand," *PCI Journal*, Vol. 50, No.5, September-October, 2005, pp 96-105.
- 6. Kose, M. M. and Burkett, W. R., "Evaluation of Code Requirements for 0.6-Inch Prestressing Strand," *ACI Structural Journal*, Vol. 102, No. 3, May-June, 2005, pp 422-428.
- 7. Gransberg, D. D., Karaca, I., and Burkett, W. R., "Quantifying Seal Coat Surface Condition Using Digital Image Processing Based on Information Theory," *International Journal of Pavement Engineering*, Vol. 3 (4), March, 2003, pp 197-205.

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## **Articles - National Conference Compendium of Papers:**

- 1. Bai, Y. and Burkett, W. R., "Rapid Bridge Replacement After an Extreme Event," Committee Meeting AFH40 Construction of Bridges and Structures and Committee AFF30 Concrete Bridges, 84<sup>th</sup> Transportation Research Board Annual Meeting: Compendium of Papers, Washington, D.C., January, 2005.
- 2. Bai, Y., Burkett, W. R., and Nash, P. T., "Lessons Learned from the I-40 Webber Falls Bridge Tragedy," Session 568 Transportation Security and Infrastructure Protection: Strategies and Policy, 83<sup>rd</sup> Transportation Research Board Annual Meeting: Compendium of Papers, Washington, D. C., January, 2004.

## **Articles - State Meeting Proceedings:**

- 1. Turkyilmaz, S., Burkett, W. R., and Vann, W. P., "Digital Analysis of Prestressed Concrete Beam Cracks," *Proceedings of Texas Section of American Society of Civil Engineers Spring Meeting*, Arlington, Texas, March, 2002, pp 313-322.
- 2. Cedeno-Rosete, R., Burkett, W. R., and Vann, W. P., "WWF Shear Reinforcement in NSC Prestressed Beams," *Proceedings of Texas Section of American Society of Civil Engineers Spring Meeting*, San Antonio, Texas, March, 2001, pp 305-315.
- 3. Karaca, I., Gransberg, D. D., and Burkett, W. R., "Seal Coat Evaluation Using Information Theory," *Proceedings of Texas Section of American Society of Civil Engineers Spring Meeting*, Austin, Texas, April, 2000, pp 243-252.
- 4. Vann, W. P., Sury, A., and Burkett, W. R., "Digital Imaging To Quantify Concrete Cracks," *Proceedings of Texas Section of American Society of Civil Engineers Spring Meeting*, Austin, Texas, April, 2000, pp 171-180.
- 5. Burkett, W. R., and Vallabhan, C. V. G., "Moment Capacity of Light Pole Transformer Base," *Proceedings of Texas Section of American Society of Civil Engineers Fall Meeting*, Dallas, Texas, September, 1998.
- 6. Burkett, W. R., and Matta, M., "Coarse Aggregate Effect on Portland Cement Concrete Strength," *Proceedings of Texas Section of American Society of Civil Engineers Fall Meeting*, El Paso, Texas, October, 1995.

## **Editor Reviewed Articles:**

- 1. Gransberg, D. D. and Burkett, W. R., "Review of *Masonry and Concrete Construction by K. Nolan*," *Cost Engineering*, Journal of the AACE International, Vol. 42, No. 11, November, 2000, p. 13.
- 2. Burkett, W. R., "Using Geometry to Improve Survivability," *The Military Engineer*, Society of American Military Engineers, August, 1988.

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### **Research and Technical Reports:**

- 1. Newhouse, C. D., Bole, S., Burkett, W. R., Nash, P. T., and El-Shami, M., *Study of Elastomeric Bearings for Superelevated U-Beam Bridges*, Report No. FHWA/TX 09-5834-1, Center for Multidisciplinary Research in Transportation, submitted to Texas Department of Transportation, October 2009, 246 pp.
- 2. Burkett, W. R., Nash, P. T., Bai, Y., Hays, C., and Jones, C., *Rapid Bridge Replacement Techniques*, Report No. FHWA/TX-5/0-4568-1, TxDOT-led Pooled-fund Study, Center for Multidisciplinary Research in Transportation, submitted to Texas Department of Transportation, October, 2004, 189 pp.
- 3. Phelan, W. S., Vann, W. P., Jayawickrama, P. W., Burkett, W. R., Rasband, D., Leaverton, M., and Senadheera, S., *Innovative Design and Construction Methods for Off-System Bridges: Final Report*, Report No. FHWA/TX-04-0-4375-TT-3, Center for Multidisciplinary Research in Transportation, Texas Tech University, submitted to Texas Department of Transportation November, 2003, 139 pp.
- 4. Burkett, W. R., Vann, W. P., Cedeno-Rosete, R., and Turkyilmaz, S., *Alternate Vertical Shear Reinforcement in Prestressed Concrete Beams*, Report No. 0-1853-2, Report for Texas Department of Transportation, Texas Tech University, November, 2002, 201 pp.
- 5. Burkett, W. R., and Kose, M. M., *Development Length of 15-mm (0.6 inch) Diameter Prestressing Strand at 50-mm (2-inch) Grid Spacing in Standard I-Shaped Pretensioned Concrete Beams*, Report No. TX-98-0-1388-2, Report for Texas Department of Transportation, Texas Tech University, June, 1999, 105 pp.
- 6. Nash, P. T., O'Hair, E. A., Burkes, T. R., Burkett, W. R., Peterson, R. E., and Trost, T. F., *Review of Sandia Report Sand 93-2517, "Evaluation of the Electromagnetic Effects Due to Direct Lightning to Nuclear Explosive Areas at Pantex,"* Report for Amarillo National Resources Center for Plutonium, Texas Tech University, February, 1998, 8 pp.
- 7. Vallabhan, C. V. G., Burkett, W. R., Mukkamala, A. S., Haque, M. M., and Kumar, R., *Evaluation of Structural Strength Characteristics of Light Pole Transformer Bases*, Report No. TX-97-0-1416-1R, Report for Texas Department of Transportation, Texas Tech University, October, 1997, 74 pp.
- 8. Burkett, W. R., Matta, M., and Borger, M., *Investigation of Portland Cement Concrete Coarse Aggregate Performance*, Report for City of Lubbock Street/Drainage Engineering Department, Texas Tech University, February, 1995, 101 pp.
- 9. Burkett, W. R., *The Response of Prestressed Concrete Roof Elements of a Buried Shelter Subjected to a Surface Explosion*, Dissertation, Doctor of Philosophy Degree, The University of Texas at Austin, December, 1992, 200 pp.
- 10. Burkett, W. R. and Frank, K. H., *Fatigue and Static Tests of 55-Strand Stay Cable Specimen for the Baytown Bridge*, Phil M. Ferguson Structural Engineering Laboratory, The University of Texas at Austin, August, 1989, 44 pp.

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- 11. Moore, J. A., Burkett, W. R., and Frank, K. H., *Fatigue and Static Tests of 43-Strand Stay Cable Specimen for the Baytown Bridge*, Phil M. Ferguson Structural Engineering Laboratory, The University of Texas at Austin, May, 1989, 33 pp.
- 12. *Annual Report*, Joint Services Civil Engineering Research and Development Coordinating Group Base Survivability Subcommittee, W. R. Burkett (secretary/editor), May, 1988.
- 13. Burkett, W. R., Prestressed Precast Segmental Concrete Bridges Erected Using the Balanced Cantilever Method, Report, Master of Engineering Degree, Texas A&M University, April, 1984, 124 pp.

### **Presentations - National Meetings (unprinted):**

- 1. Burkett, W. R., "Rapid Bridge Replacement Techniques Pooled-Fund Project Final Report," Workshop on Bridge and Tunnel Security Update, 2005 Transportation Research Board Annual Meeting, Washington D.C., January 9, 2005. (Invited presentation)
- 2. Burkett, W. R., "Rapid Bridge Replacement Techniques," T-1 Technical Committee for Bridge and Tunnel Security, American Association of State and Highway Transportation Officials-Subcommittee on Bridges and Structures Annual Meeting, Albuquerque, New Mexico, June 2, 2003. (Invited presentation)
- 3. Burkett, W. R. and Nash, P. T., "Rapid Bridge Replacement Techniques," National Meeting on Transportation Security Pooled Fund Projects, Austin, Texas, September, 2002.

## <u>Presentations - Regional/State/Local Meetings (unprinted):</u>

- 1. Burkett, W. R., "Rapid Bridge Replacement Techniques," QUOIN/ASC Region V Educators Conference, Dallas, Texas, September 26, 2003.
- 2. Williamson, E. B. and Burkett, W. R., "Status of TxDOT-Led Pooled-Fund Security Research Projects on Bridge Design and Rapid Replacement," Session 7, 2002 Transportation Short Course, College Station, Texas, October, 2002. (Invited presentation)
- 3. Burkett, W. R. and Vann, W. P., "Alternate Vertical Shear Reinforcement in Prestressed Concrete Beams," Texas Department of Transportation, Research Management Committee 5 Meeting, Austin, Texas, June, 2002.
- 4. Burkett, W. R., "Construction Engineering Technology Program at Texas Tech University," Lubbock Chapter of Construction Specifications Institute, Lubbock, Texas, December, 2000. (Invited presentation)
- 5. Burkett, W. R., and Vann, W. P., "Alternate Vertical Shear Reinforcement in Prestressed Concrete Beams," Texas Department of Transportation, Research Management Committee 5 Meeting, Houston, Texas, June, 2000.

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- 6. Burkett, W. R. and Kose, M. M., "Development Length of 15-mm Prestressing Strand," presented at Texas Section of American Society of Civil Engineers Fall Meeting, Dallas, Texas, 1998.
- 7. Vallabhan, C. V. G., and Burkett, W. R., "Evaluation of Structural Strength Characteristics of Light Pole Transformer Bases," Texas Department of Transportation, Research Management Committee 9 Meeting, College Station, Texas, May, 1996.

## **Invited Publisher Reviews:**

- 1. Review of problem set for Mechanics of Materials textbook for Prentice Hall, October, 2002.
- 2. Review of textbook, *Mechanics of Materials*, by Bedford and Liechti, for Prentice Hall, May, 2002.
- 3. Review of textbook: Statics ( $2^{nd}$  Edition), by Bedford & Fowler, for Addison Wesley Publishing, 1997.
- 4. Review of textbook: *Design of Reinforced Concrete* (4<sup>th</sup> Edition), by McCormac, for Addison, Wesley, & Longman, 1996.

## **Research Proposals (funded):**

- 1. "Study of Elastomeric Bearings for Super-elevated U-Beam Bridges," \$225,272.00, Texas Department of Transportation, 2007-2009. (Co-Principal Investigator)
- 2. "Rapid Bridge Replacement, Refugio County," \$35,000.00, Texas Department of Transportation, 2004-2005. (Research Supervisor / Principal Investigator)
- 3. Interagency Cooperation Contract, "Construction Tolerances for T-base Foundations," \$13,000.00, Texas Department of Transportation, 2004-2005. (Research Supervisor / Principal Investigator)
- 4. "Rapid Bridge Replacement Techniques," \$181,650.00, Texas Department of Transportation, 2002-2003. (Research Supervisor / Co-Principal Investigator)
- 5. "Innovative Design and Construction Methods for Off-System Bridges," \$282,248.00, Texas Department of Transportation, 2001-2003. (Co-Principal Investigator)
- 6. "Alternate Vertical Shear Reinforcement in Prestressed Concrete Beams," \$399,500.00, Texas Department of Transportation, 1998-2002. (Research Supervisor / Co-Principal Investigator)
- 7. "Review of Sandia Report Sand 93-2517, 'Evaluation of the Electromagnetic Effects Due to Direct Lightning to Nuclear Explosive Areas at Pantex'," \$10,000.00, Amarillo National Resource Center for Plutonium, 1997. (Co-Principal Investigator)

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- 8. "Development Length of 15-mm (0.6") Diameter Prestressing Strand at 50-mm (2") Grid Spacing in Standard I-shaped Pretensioned Concrete Beams," \$100,500.00, Texas Department of Transportation, 1995-1998. (Research Supervisor / Principal Investigator)
- 9. "Evaluation of Structural Strength Characteristics for Light Pole Transformer Bases," \$169,000.00, Texas Department of Transportation, 1995-1997. (Co-Principal Investigator)
- 10. "Investigation of Portland Cement Concrete Coarse Aggregate Performance," \$9,000.00, City of Lubbock Street/Drainage Engineering Department, Lubbock, Texas, 1994-1995. (Research Supervisor / Principal Investigator)
- 11. "Dynamic Nonlinear Finite Element Modeling of Reinforced Concrete Elements Subjected to Impact Loading of Tornado Induced Missiles," \$7,000.00, College of Engineering, Texas Tech University, 1994. (Research Supervisor / Principal Investigator)
- 12. "Sludge Beds: Geotechnical Properties of Materials & Analysis of Stability," \$2,400.00, Center for Applied Research in Automation and Robotics, Texas Tech University, 1994. (Co-Principal Investigator)

### **Research Proposals (unfunded):**

- 1. "Bursting and Shear Behavior of Prestressed Concrete Beams with End Blocks," \$733,099.00, Texas Department of Transportation, March, 2007. (Burkett, Newhouse, & Budek)
- 2. "Evaluation and Repair Procedures for Precast/Prestressed Concrete Girders with Longitudinal Cracking," \$289,702.00, National Cooperative Highway Research Program, November, 2006. (Burkett & Newhouse)
- 3. "Steel Fiber Replacement of Mild Steel in Prestressed Concrete Beams," \$463, 391.00, Texas Department of Transportation, March, 2006. (Burkett, Newhouse, & Budek)
- 4. "Impact of Overhang Construction on Girder Design," \$187,453.00, Texas Department of Transportation, March, 2006. (Newhouse, Budek, & Burkett)
- 5. "Temporary Bridging to Avoid or Minimize Impacts to Waters and Wetlands During Highway Construction," \$100,000.00, National Cooperative Highway Research Program, November, 2005. (Burkett & Audra Morse)
- 6. "Improved Loss and Camber Predictions for Prestressed Concrete Girders," \$340,858.00, Texas Department of Transportation, March, 2005. (Burkett & Senadheera)
- 7. "Blast-Resistant Highway Bridges: Design and Detailing Guidelines," \$950,000.00, National Cooperative Highway Research Program, October, 2004. (Nash, Norville, Burkett, Budek, & Phelan)
- 8. "Performance Testing of Anchors for Retrofitting and Repair of Bridge Rails," \$446,022.00, Texas Department of Transportation, March, 2003. (Co-Principal Investigator)

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- 9. "Rational Shear Provisions for AASHTO-LRFD Specifications," \$274,365.00, Texas Department of Transportation, March, 2003. (Co-Principal Investigator)
- 10. "Fiber Reinforcement in Prestressed Concrete Beams," \$583,356.00, Texas Department of Transportation, March, 2003. (Research Supervisor / Co-Principal Investigator)
- 11. "Development of a Masters Degree Program in Construction," \$442,000.00, Texas Tech University College of Engineering Excellence Funds, August, 2001. (Co-Principal Investigator)
- 12. "Low Profile Bridge Overpass Design and Implementation," \$538,473.00, Texas Department of Transportation, March, 2001. (Co-Principal Investigator)
- 13. "A Study of the Feasibility of Vibration Measurements and Analysis for Damage Identification in Bridges," \$398,164.00, Texas Department of Transportation, March, 2001. (Co-Principal Investigator)
- 14. "Allowable Stresses and Resistance Factors for High Strength Concrete," \$175,500.00, Texas Department of Transportation, October, 1999. (Co-Principal Investigator)
- 15. "New Design Method for Inverted "T" Bents," \$229,000.00, Texas Department of Transportation, March, 1998. (Co-Principal Investigator)
- 16. "Explore New Uses for T-Headed Bars in Structural Concrete Reinforcement Applications," \$200,000.00, Texas Department of Transportation, March, 1998. (Co-Principal Investigator)
- 17. "Study of Flexural Cracking (from unknown sources) in Cantilever Standard Design Interior Bent Caps," \$286,000.00, Texas Department of Transportation, March, 1998. (Research Supervisor / Co-Principal Investigator)
- 18. "Nonlinear Finite Element Modeling of Wind Generated Missile Impact on Concrete Structures," \$84,000.00, Advanced Research Program, Texas Higher Education Coordinating Board, July, 1997. (Research Supervisor / Principal Investigator)
- 19. "Develop Methods to Strengthen Existing Structures," \$415,000.00, Texas Department of Transportation, March, 1997. (Co-Principal Investigator)
- 20. "Applicability of 151.7 MPa (22 ksi) Dead Load Stress Limit on Bent Cap Reinforcing," \$307,222.00, Texas Department of Transportation, April, 1996. (Co-Principal Investigator)
- 21. "Design and Detailing of Precast Bent Cap System," \$196,438.00, Texas Department of Transportation, April, 1996. (Co-Principal Investigator)
- 22. "Compressed Rubber Block Subgrade Stabilization," \$24,919.00, U. S. Army Corps of Engineers Construction Engineering Research Laboratory, December, 1994. (Co-Principal Investigator)

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- 23. "Investigation of Early Moment Capacity in Column Foundations for Pre-Engineered Steel Structures," \$8,000.00, College of Architecture, Texas Tech University, November, 1994. (Co-Principal Investigator)
- 24. "Investigation of Large Tornado Missile Impact of Reinforced Concrete Panels," \$60,000.00, Institute for Disaster Research, Texas Tech University, August, 1994. (Research Supervisor / Principal Investigator)

### **Equipment Grants:**

- 1. Dallas Chapter AGC, Education and Research Foundation, \$10,000.00 Equipment Grant, Upgrade CTEC Materials and Soils Laboratories, August, 2000.
- 2. Texas Tech University, Teaching, Learning, and Technology Center (TLTC), \$3,300.00 Equipment Grant, "Multimedia Development Hardware for Web-based Courses and Presentations," March, 1999.
- 3. Dallas Chapter AGC, Education and Research Foundation, \$5,000.00 Equipment Grant, Upgrade Surveying Laboratory, November, 1998.

## **Academic and Industrial Experience:**

Texas Tech University: Undergraduate Faculty – Department of Engineering Technology
(Construction Option)
Graduate Faculty – Department of Civil Engineering

ET Chairman: June 2007 – Present
Professor: September 2005 – Present
Associate Professor: September 1999 – August 2005

Tenure Granted: 1999

Assistant Professor: September 1993 – August 1999

Graduate Faculty: 1994 – Present

Construction Option Coordinator: September 1994 – June 2007

#### **Undergraduate Courses Taught:**

GTEC 2311, Applied Mechanics I – Statics (7 semesters)

GTEC 2411, Applied Mechanics I – Statics & Dynamics (6 semesters)

GTEC 3311, Applied Mechanics II – Strength of Materials (18 semesters)

GTEC 4121, Fundamental Review (Team taught) (18 semesters)

GTEC 4131, Special Topics (3 semesters)

GTEC 4300, Internship (42 semesters)

GTEC 4331, Special Topics – Masonry (2 semesters)

CTEC 2301, Surveying (4 semesters)

CTEC 4311, Concrete Structures (18 semesters)

CTEC 4312, Steel Structures (18 semesters)

CTEC 4313, Masonry Structures (6 semesters)

CTEC 4331, Special Topics – Concrete (1 semester)

CONE 1100, Introduction to Construction (2 semester)

#### CONE 4312, Construction Concrete Structures

## Student course evaluations average 4.28 on 5.0 scale. ??

### **Graduate Courses Taught:**

CE 5331, Special Topics – Prestressed Concrete (2 semesters)

CE 5331, Special Topics – Masonry (2 semesters)

CE 6330, Masters Report (1 semester)

CE 7000, Research (16 semesters)

CE 8000, Doctoral Dissertation (11 semesters)

#### **Graduate Student Involvement:**

| Name                     | Degree | Date     | Department        | Committee            |
|--------------------------|--------|----------|-------------------|----------------------|
|                          |        |          |                   | Position             |
| Manohar Matta            | MS     | 1995     | Civil Engineering | Chairman             |
| Cihangir Gultek          | MS     | 1995     | Civil Engineering | Member               |
| Krishnan Viswanathan     | MS     | 1996     | Civil Engineering | Member               |
| Ashek Rana               | MS     | 1996     | Civil Engineering | Member               |
| Mohammed Haque           | MS     | 1997     | Civil Engineering | Member *             |
| Adinarayana Mukkamala    | MS     | 1997     | Civil Engineering | Member               |
| Ritesh Kumar             | MS     | 1997     | Civil Engineering | Member *             |
| Anis Sury                | MS     | 1999     | Civil Engineering | Member               |
| Selim Turkyilmaz         | MS     | 2001     | Civil Engineering | Member *             |
| Adel A. Hezam            | MS     | 2002     | Civil Engineering | Member               |
| Cal W. Hays              | MS     | withdrew | Civil Engineering | Member *             |
| Metin Kose               | Ph.D.  | 1999     | Civil Engineering | Chairman             |
| Rafael Cedeno-Rosete     | Ph.D.  | 2001     | Civil Engineering | Member *             |
| Hector Garcia-Monzon     | Ph.D.  | 2006     | Civil Engineering | Graduate Dean's Rep. |
| Prashanth Badrinarayanan | Ph.D.  | 2007     | Chem. Engineering | Graduate Dean's Rep. |
| Adam Kyle Davidson       | MS     | 2009     | Civil Engineering | Member               |
| Scott Bole               | Ph.D.  | 2010     | Civil Engineering | Co-Chair             |
| Emrah Gumus              | Ph.D.  | 2010     | Mech. Engineering | Graduate Dean's Rep. |

<sup>\*</sup> Provided significant supervision and guidance as committee member.

#### Construction Option Coordinator (Admin. ¼-time) (1994 – 2007)

- Undergraduate CTEC Advisor
- Coordinate CTEC course schedules and CTEC faculty assignments
- Solicit and work with CTEC Industrial Advisory Board Members
- Coordinated and worked with Construction companies: student job placement
- Departmental support and preparation for ABET / TAC visits (2 visits)

#### Departmental growth:

- CTEC Majors: 60 in 1993 to 200<sup>+</sup> in 2009
- Significant increase in CTEC minors from 1993 2007
- Significant increase in number / type of companies recruiting CTEC graduates
- Increase in externally funded CTEC scholarships

#### ET Department Chair (Admin. ½ -time) (2007 – Present)

#### 1. ABET – TAC:

- Developed and implemented ET-ABET continuous improvement process
- Timely submission of ABET Reports & Correspondence
- Programs re-accredited by ABET until next normal 6-year cycle, 2012.

#### 2. Construction Engineering program:

- Developed ConE Program and proposal
- Approved by THECB in June 2009
- Work on transition of existing programs to new programs
- Working on Mech./Elect. Subcontractor option for ConE

#### 3. SACS:

- Timely completion of SACS reports
- Upgrading ET Strategic Plan and Goals in 2008 & 2011
- Input data into new system, TracDat

#### 4. General Admin.:

- Worked with other departments in consolidation of labs and workspaces
- Renovation of ET Office spaces, 2008
- Updating and developing ET Department Operating Procedures
- Developed curriculum for CONE Mech./Elect. Subcontractor option
- Implemented "Partners in Excellence" to raise available soft money
- Significant increase in departmental soft funds and scholarship funds
- Increase in number and funding values of research proposals and publications with the CEET Department

### 5. Graduate Courses / Faculty

- Two new CEET faculty approved to Graduate Faculty under CONE
- CONE 5331, Special topics approved (First CONE graduate course)
- Additional CONE 5xxx courses under development
- Working on plans for CONE Graduate Certification

## Departmental Service: Engineering Technology (ET):

| Title  | Date           | Remarks         |
|--|----------------|-----------------|
| Student Chapter of Association of General    | 1994 - 2000    | Faculty Advisor |
| Contractors                                  | 2006 - 2007    |                 |
| ET Scholarship Committee                     | 1994 - 2007    | Chairman        |
| ET Steering Committee: Curriculum & Policies | 1995 – 2007    | Member          |
| ET Industrial Advisory Board Work-group:     | 1995           | Chairman        |
| Problem Solving for Industry                 |                |                 |
| ET Industrial Advisory Board Continuous      | 1998           | Chairman        |
| Improvement Work-group: Communications       |                |                 |
| CTEC Faculty Search Committee (Gilman)       | 1998 – 1999    | Member          |
| CTEC Faculty Search Committee (Gransberg)    | 1999           | Member          |
| ASC Design/Build Student Competition Team    | 1999, 2000 &   | Coach           |
|  | 2003 - 2008    |                 |
| ET Workgroup, Continuous Improvement of      | 1999           | Member          |
| Student Communication Skills                 |                |                 |
| ET Promotion and Tenure Committee            | 1999 – Present | Member          |
| ET Post-tenure Review Committee              | 2000 – Present | Member          |
| ET HEAF Allocation Committee                 | 2001 – 2007    | Member          |
| CTEC Scholarship Committee                   | 2002 - 2004    | Chair           |
| CTEC Faculty Search Committee (Bai)          | 2003 – 2004    | Chair           |
| Masonry Day at TTU (60 to 100 CTEC students) | 2004 – 2007    | Sponsor         |
| ET Staff Advisor Search Committee            | 2005           | Member          |
| Construction Engineering, Ad Hoc Committee   | 2006           | Chairman        |

## College of Engineering (COE) Service:

| Title  | Date           | Remarks           |
|--|----------------|-------------------|
| M S Environmental Engineering Advisory Comm. | 1995 – 1998    | Member            |
| COE Co-Op Education Advisory Committee       | 1997 – 2006    | Member            |
| COE Dean Search Committee                    | 1998 – 1999    | Member            |
| Civil Engr. Post Tenure Review Committee     | 2002 & 2006    | External Member   |
| 2005 ABET Visit COE Steering Committee       | 2004           | ET Representative |
| COE Promotion & Tenure OP Review Committee   | 2005 – 2006    | Member            |
| COE Graduate Programs, Ad Hoc Committee      | 2005           | Member            |
| COE Academic Program Committee               | 2006 – 2007    | Member            |
| COE Executive Committee                      | 2007 – Present | Member            |
| COE Dean's Search Committee                  | 2010           | Member            |

## Texas Tech University (TTU) Service:

| Title                                   | Date        | Remarks            |
|---|-------------|--------------------|
| Faculty Senate                          | 1997 - 2000 | COE Representative |
| - Study Group B                         | 1997 – 1998 | Member             |
| - Faculty Status & Welfare Committee    | 1998 – 1999 | Member             |
| - Ad Hoc Committee: Election Procedures | 1999        | Member             |
| - Study Group C                         | 1999 - 2000 | Member             |
| University Discipline Appeals Committee | 1997 – 1998 | Member             |
| University Convocations Committee       | 2000 - 2009 | Member             |
|   | 2005 - 2006 | Vice-Chair         |
|   | 2006 - 2007 | Chair              |
| TTU – Masonry Day (300 Architecture and | 2003        | Co-sponsor         |
| Engineering students)                   |             |                    |

## <u>Professional Service:</u>

| Title  | Date           | Remarks           |
|--|----------------|-------------------|
| Texas Section American Society of Civil          |                |                   |
| Engineers:                                       |                |                   |
| - Structural Technical Group                     | 1997 - 2005    | Member            |
| - Structural Technical Group                     | 1997 – 1998    | Secretary         |
| - Structural Technical Group                     | 1998 – 1999    | Vice-Chair        |
| - Structural Technical Group                     | 1999 - 2001    | Chair             |
| Texas DOT, Technical Assistance Panel 5          | 1999 – 2007    | Member            |
| Associated Schools of Construction:              |                |                   |
| - Region 5                                       | 1999 – Present | TTU – CTEC Rep.   |
| - Proceedings of International Annual Conf.      | 2005 - 2006    | Article Reviewer  |
| The Masonry Society Journal                      | 2001 - 2006    | Article Reviewer  |
| National Council of Examiners for Engineering    | 2001 – Present | Member            |
| and Surveying, Civil Engineering Examination     |                |                   |
| Committee, Structures Group                      |                |                   |
| ASCE Journal of Professional Issues in           | 2005           | Article Reviewer  |
| Engineering Education & Practice                 |                |                   |
| Texas Building Branch AGC Outstanding            | 2006 – Present | Judge             |
| Construction Awards                              |                |                   |
| American Institute of Steel Construction         | 2006 – Present | Member            |
| American Society of Engineering Education        | 2007 – Present | Member            |
| American Society of Civil Engineers              | 2007 – Present | Member            |
| American Society of Civil Engineers,             | 2007 – Present | Member            |
| Construction Institute, Construction Engineering |                |                   |
| Education Committee                              |                |                   |
| External Reviewer of Promotion and Tenure        |                | External Reviewer |
| Dossiers:  |                |                   |
| - Dr. Song (P & T), University of Houston, ET    | 2009           |                   |
| - Dr. Morcous, (P & T), University of            | 2009           |                   |
| Nebraska, Omaha, ConE                            |                |                   |
| - Dr. Cottrell, (P & T), University of North     | 2010           |                   |
| Carolina @ Charlotte, CTEC                       |                |                   |

#### Community Service:

| Title  | Date           | Remarks              |
|--|----------------|----------------------|
| Calvary Baptist Church, Lubbock, Texas:        | 1994 – Present | Member               |
| - Adult Choir                                  | 1994 – 2004    | Member               |
| - Calvary Chorale                              | 1995 – 1999    | Member               |
| - Music Minister Search Committee              | 1995           | Chairman             |
| - Sunday Bible Study Director                  | 1996 – 1998    | Director             |
| - Nominating Committee                         | 1996 – 1998    | Member               |
| - Church Council                               | 1996 – 1998    | Member               |
| - College Department Sunday Bible Study        | 1998 – 2006    | Director / Teacher   |
| - New Worship Center Task Force                | 2000 - 2004    | Member               |
| - World Changers Mission Projects (5)          | 2002 - 2006    | Crew Chief / Support |
| - Personnel Committee                          | 2007 - 2009    | Member               |
| Baptist Student Ministry, Texas Tech Univ.:    |                |                      |
| - Board of Trustees                            | 2000 - 2002    | Member               |
| - Director Search Committee                    | 2002           | Member               |
| - Faculty Advisor                              | 2004 - Present | Advisor              |
| Frenship Independent School District, Building | 2004 - 2005    | Member               |
| Trades Advisory Committee                      |                |                      |

#### **Consultant for Randy Hickle of Scott Laboratory:**

Preliminary designs and guidance on innovative fence design being developed by Randy Hickle for Grace Clinic near Quaker Avenue and Brownfield Road, Lubbock, Texas, July-September 2006.

#### **Expert Witness for State of Texas:**

Office of the Attorney General – Transportation Division and the Texas Department of Transportation in Cause No. 601-01-3107, *Texas Department of Transportation vs. Component Products, Inc.*, 2001 – 2002.

#### Consultant for Ameron International, Pole Products Division, Tulsa, Oklahoma:

Reviewed "Roadway Lighting Poles," fabrication details and drawings and evaluated light pole / transformer base system strength capacities, 1997 – 1998.

#### **Consult for Valmont Industries, Valley, Nebraska:**

Conducted finite element analyses on light pole base plates, 1997.

#### Contract Engineer for Espey, Huston, & Associates, Austin, Texas:

May – August 1995: Designed a large portion of the reinforced concrete superstructure for the Winchester Road Tunnel (Phase I) near the Nashville, Tennessee airport.

April – August 1993: Designed a large portion of the reinforced concrete structure for Applied Materials - Phase II; a 2 story, 168,000 square foot manufacturing facility. Duties included the design of the reinforced concrete columns, floor system, crawl space perimeter wall, and elevator supports.

#### Officer, United States Navy, Civil Engineer Corps:

<u>Project Officer:</u> Assigned to HQ Air Force Engineering and Services Center, Tyndall AFB, FL. Principal duty was to develop and manage Air Force Research, Development, Test, and Evaluation programs. Areas of responsibility included base survivability and recovery, protective structural systems, conventional weapons effects, and computer modeling of structures. Collateral duty was serving as secretary of Joint Services Civil Engineering Research and Development Coordinating Group - Base Survivability Subcommittee. Promoted to rank of Lieutenant, October 1987. August 1986 – August 1988

Assistant Resident Officer in-charge-of Construction: Assigned to Northern Division Contracts Office, Naval Facilities Engineering Command, Brunswick Naval Air Station, Maine. Principal duty was administering over 20 general construction contracts, new construction and renovation of base facilities. Promoted to rank of Lieutenant (Junior Grade), March 1986. October 1984 – August 1986

#### Instructor, College of Technical Arts, Lamar University, Beaumont, Texas:

Principal duty was teaching and developing undergraduate courses in drafting technology and applied mathematics and student advisor. Collateral duties were faculty advisor for 2 student organizations, Faculty Senate, Faculty Senate Developmental Leave Committee, Department Promotion Committee, and Faculty-Student Relations Committee. Promoted to Instructor II in spring of 1981. August 1977 – August 1982

#### Structural/Mechanical Draftsman, Dresser Ideco, Beaumont, Texas:

Principal duty was drawing and checking structural and mechanical shop drawings used in manufacturing oil field equipment. May 1974 – August 1977

## **Honors and Awards:**

- 1. TTU, College of Engineering, Honors Convocation, recognized for "Outstanding Teaching," February, 2007.
- 2. Coached TTU-CTEC Design/Build Team to 1<sup>st</sup> Place position in the Region 5 Associated Schools of Construction Student Competition, Design/Build Division, February, 2006.
- 3. TTU, College of Engineering, Honors Convocation, recognized for "Outstanding Teaching," February, 2006.
- 4. TTU, College of Engineering, Honors Convocation, recognized for "Outstanding Teaching," February, 2005.
- 5. TTU, College of Engineering, Honors Convocation, recognized for "Outstanding Teaching," February, 2004.
- 6. "Best of Session," Texas Section, American Society of Civil Engineers, Award in recognition of the paper titled, "Digital Analysis of Prestressed Concrete Beam Cracks," Paper presented at Spring 2002 Meeting, Award presented at Spring 2003 Meeting.

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- 7. Paper titled, "Welded Wire Fabric (WWF) Shear Reinforcement in Normal Strength Concrete (NSC) Prestressed Beams," submitted to the Hawley Fund Trustees for consideration for the 2002 Major John B. Hawley Memorial Fund Outstanding Paper Award by the Texas Section, American Society of Civil Engineers, February, 2002.
- 8. "Best of Session," Texas Section, American Society of Civil Engineers, Award in recognition of the paper titled, "Welded Wire Fabric (WWF) Shear Reinforcement in Normal Strength Concrete (NSC) Prestressed Beams," Paper presented at the Spring 2001 Meeting, Award presented at Spring 2002 Meeting.
- 9. "Best of Session," Texas Section, American Society of Civil Engineers, Award in recognition of the paper titled, "Digital Imaging to Quantify Concrete Cracks," Paper presented at the Spring 2000 Meeting, Award presented at Spring 2001 Meeting.
- 10. "Best of Session," Texas Section, American Society of Civil Engineers, Award in recognition of the paper entitled, "Moment Capacity of Light Pole Transformer Base," Paper presented at the Fall 1998 Meeting, Award presented at Spring 1999 Meeting.
- 11. "Burford Teaching Award," College of Engineering, Texas Tech University, 1997.
- 12. "Engineering Technology Outstanding Instructor," Tau Alpha Pi, Texas Tech University, 1994.
- 13. Air Force Office of Scientific Research Laboratory Graduate Fellowship, 1989-1992.
- 14. "Award of Excellence," Halliburton Education Foundation, Lamar University, 1980.
- 15. Chi Epsilon National Honorary Civil Engineering Fraternity, 1980.

## **Professional Conferences, Workshops, and Meetings:**

| Title   | Location        | Date     | Remarks     |
|---|-----------------|----------|-------------|
| Conference on Research Opportunities in       | San Antonio,    | November | Attendee    |
| Science and Engineering                       | Texas           | 1993     |             |
| Southern Forest Products Association Seminar, | Lubbock,        | February | TTU Campus  |
| Engineered Wood Systems                       | Texas           | 1994     | Sponsor     |
| American Society of Civil Engineers,          | Atlanta,        | November | Attendee    |
| Fall Convention                               | Georgia         | 1994     |             |
| American Concrete Institute,                  | Salt Lake City, | March    | Attendee    |
| Spring Convention                             | Utah            | 1995     |             |
| The Masonry Society,                          | Arlington,      | March    | Participant |
| University Professor's Workshop               | Texas           | 1995     |             |
| American Society of Civil Engineers,          | El Paso,        | October  | Presenter   |
| Texas Section Fall Meeting                    | Texas           | 1995     |             |
| Strategic Highway Research Program,           | Houston,        | March    | Attendee    |
| High Performance Concrete Showcase            | Texas           | 1996     |             |

| Southern Forest Products Association Seminar, | Lubbock,        | March     | TTU Campus   |
|---|-----------------|-----------|--------------|
| Engineered Wood Systems                       | Texas           | 1996      | Sponsor      |
| Texas Department of Transportation,           | College Station | May       | Presenter    |
| Research Management Committee 9 Meeting       | Texas           | 1996      |              |
| Southwestern Brick Institute, Texas Masonry   | Corpus Christi, | August    | Participant  |
| Professor's Roundtable Discussion             | Texas           | 1996      | 1            |
| American Concrete Institute,                  | Seattle,        | April     | Attendee     |
| Spring Convention                             | Washington      | 1997      |              |
| The University of Texas at Austin,            | Austin,         | May       | Attendee     |
| STEER '97                                     | Texas           | 1997      |              |
| Southwestern Brick Institute, Texas Masonry   | Arlington,      | August    | Participant  |
| Professor's Roundtable Discussion             | Texas           | 1997      |              |
| Dallas Chapter, Association of General        | Dallas,         | September | Attendee     |
| Contractors, Educator's Conference            | Texas           | 1997      |              |
| American Society of Civil Engineers,          | Arlington,      | October   | Presentation |
| Texas Section Fall Meeting                    | Texas           | 1997      | Evaluator    |
| Southern Forest Products Association Seminar, | Lubbock,        | February  | TTU Campus   |
| Engineered Wood Systems                       | Texas           | 1998      | Sponsor      |
| American Concrete Institute,                  | Houston,        | March     | Attendee     |
| Spring Convention                             | Texas           | 1998      |              |
| American Society of Civil Engineers,          | South Padre     | April     | Presentation |
| Texas Section Spring Meeting                  | Island, Texas   | 1998      | Evaluator    |
| Texas Department of Transportation,           | San Antonio,    | June      | Attendee     |
| Research Management Committee 5 Meeting       | Texas           | 1998      |              |
| American Society of Civil Engineers,          | Dallas,         | September | Presenter &  |
| Texas Section Fall Meeting                    | Texas           | 1998      | Evaluator    |
| American Society of Civil Engineers,          | Longview,       | April     | Evaluator    |
| Texas Section Spring Meeting                  | Texas           | 1999      |              |
| Texas Department of Transportation,           | San Antonio,    | June      | Attendee     |
| Research Management Committee 5 Meeting       | Texas           | 1999      |              |
| Southwestern Brick Institute, Texas Masonry   | College Station | August    | Participant  |
| Professor's Roundtable Discussion             | Texas           | 1999      |              |
| Dallas Chapter, Association of General        | Dallas,         | September | Attendee     |
| Contractors, Educator's Conference            | Texas           | 1999      |              |
| Texas Department of Transportation,           | Austin,         | October   | Member       |
| RMC 5 Technical Advisory Panel Meeting        | Texas           | 1999      |              |
| American Society of Civil Engineers,          | Midland,        | October   | Evaluator    |
| Texas Section Fall Meeting                    | Texas           | 1999      |              |
| Texas Department of Transportation,           | Waco,           | November  | Attendee     |
| Research Management Committee 5 Meeting       | Texas           | 1999      |              |
| American Society of Civil Engineers,          | Austin,         | April     | Evaluator &  |
| Texas Section Spring Meeting                  | Texas           | 2000      | Presenter    |
| Texas Department of Transportation,           | Houston,        | June      | Presenter    |
| Research Management Committee 5 Meeting       | Texas           | 2000      | ~            |
| Southwestern Brick Institute, Masonry         | Lubbock,        | August    | Sponsor      |
| Professor's Roundtable Discussion             | Texas           | 2000      |              |

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|--|-----------------|-----------|-------------|
| Dallas Chapter, Association of General         | Dallas,         | September | Attendee    |
| Contractors, Educator's Conference             | Texas           | 2000      | A 1         |
| Region V, Associated Schools of Construction   | Dallas,         | September | Attendee    |
| Mid-year Conference                            | Texas           | 2000      |             |
| Texas Department of Transportation,            | Austin,         | October   | Member      |
| RMC 5 Technical Advisory Panel Meeting         | Texas           | 2000      |             |
| Texas Department of Transportation,            | Corpus Christi, | November  | Attendee    |
| Research Management Committee 5 Meeting        | Texas           | 2000      |             |
| American Society of Civil Engineers,           | San Antonio,    | March     | Session     |
| Texas Section Spring Meeting                   | Texas           | 2001      | Chairman    |
| Texas Department of Transportation,            | Arlington,      | June      | Attendee    |
| Research Management Committee 5 Meeting        | Texas           | 2001      |             |
| Southwestern Brick Institute, Masonry          | Austin,         | August    | Participant |
| Professor's Roundtable Discussion              | Texas           | 2001      |             |
| TxDOT/FHWA, Workshop on Prefabricated          | Austin,         | September | Attendee    |
| Bridge Systems to Eliminate Traffic Disruption | Texas           | 2001      |             |
| Texas Department of Transportation,            | Austin,         | September | Member      |
| RMC 5 Technical Advisory Panel Meeting         | Texas           | 2001      |             |
| Associated General Contractors of America      | Andrews,        | October   | Recruiter   |
| West Texas Construction Career Days            | Texas           | 2001      |             |
| NCEES, Civil Engineering Examination           | Albuquerque,    | October   | Member      |
| Committee                                      | New Mexico      | 2001      | 1/10111001  |
| Texas Department of Transportation,            | San Antonio,    | November  | Attendee    |
| Research Management Committee 5 Meeting        | Texas           | 2001      | Tittenace   |
| NCEES, Civil Engineering Examination           | Clemson,        | January   | Member      |
| Committee                                      | South Carolina  | 2002      | Wichioci    |
| FWHA/AASHTO/TxDOT, Precast Concrete            | Dallas,         | March     | Attendee    |
| Bent Cap Demonstration Workshop                | Texas           | 2002      | Attendee    |
| CalTran/US DOT/MTA, Southern California        | Los Angeles,    | March     | Attendee    |
| Transportation Security Summit                 | California      | 2002      | Attended    |
| AASHSTO Workshop on Highway Security           | Los Angeles,    | March     | Participant |
| Research Needs                                 | California      | 2002      | Farticipant |
|  |                 | March     | Reviewed    |
| American Society of Civil Engineers,           | Arlington,      | 2002      |             |
| Texas Section Spring Meeting                   | Texas           |           | Papers      |
| Texas Department of Transportation,            | Austin,         | June      | Presenter   |
| Research Management Committee 5 Meeting        | Texas           | 2002      | D .         |
| National Meeting on Transportation Security    | Austin,         | September | Presenter   |
| Pooled Fund Projects                           | Texas           | 2002      | 3.6         |
| Texas Department of Transportation,            | Austin,         | October   | Member      |
| RMC 5 Technical Advisory Panel Meeting         | Texas           | 2002      | <b>D</b> .  |
| 2002 Transportation Short Course               | College Station | October   | Presenter   |
|  | Texas           | 2002      |             |
| American Society of Civil Engineers,           | Waco,           | October   | Reviewed    |
| Texas Section Fall Meeting                     | Texas           | 2002      | Papers      |
| Texas Department of Transportation,            | San Antonio,    | November  | Attendee    |
| Research Management Committee 5 Meeting        | Texas           | 2002      |             |

| NCEES, Civil Engineering Examination Committee | Phoenix,<br>Arizona        | January<br>2003 | Member      |
|--|----------------------------|-----------------|-------------|
| NCEES, Civil Engineering Examination Committee | Greenville, South Carolina | April<br>2003   | Member      |
| American Society of Civil Engineers,           | Corpus Christi,            | April           | Reviewed    |
| Texas Section Spring Meeting                   | Texas                      | 2003            | Papers      |
| Texas Department of Transportation,            | San Antonio,               | June            | Attendee    |
| Research Management Committee 5 Meeting        | Texas                      | 2003            | Attendee    |
| AASHTO – Subcommittee on Bridges and           | Albuquerque,               | June            | Presenter   |
| Structures Annual Meeting, T-1 Technical       | New Mexico                 | 2003            | Trescriter  |
| Committee for Bridges and Tunnel Security      | THEW INTEXICO              | 2003            |             |
| NCEES, Civil Engineering Examination           | Clemson,                   | July            | Member      |
| Committee                                      | South Carolina             | 2003            | Wichioci    |
| Southwestern Brick Institute, Masonry          | San Antonio,               | August          | Participant |
| Professor's Roundtable Discussion              | Texas                      | 2003            | Turticipunt |
| QUION / Region V – Associated Schools of       | Dallas,                    | September       | Presenter   |
| Construction Educators Conference              | Texas                      | 2003            | Tresenter   |
| American Society of Civil Engineers,           | Dallas,                    | September       | Reviewed    |
| Texas Section Fall Meeting                     | Texas                      | 2003            | Papers      |
| Texas Department of Transportation,            | Austin,                    | October         | Member      |
| RMC 5 Technical Advisory Panel Meeting         | Texas                      | 2003            |             |
| NCEES, Civil Engineering Examination           | Greenville,                | Oct-Nov         | Member      |
| Committee                                      | South Carolina             | 2003            |             |
| Texas Department of Transportation,            | Austin,                    | November        | Attendee    |
| Research Management Committee 5 Meeting        | Texas                      | 2003            |             |
| American Society of Civil Engineers,           | South Padre,               | April           | Reviewed    |
| Texas Section Spring Meeting                   | Texas                      | 2004            | Papers      |
| NCEES, Civil Engineering Examination           | Greenville,                | April           | Member      |
| Committee                                      | South Carolina             | 2004            |             |
| Texas Department of Transportation,            | Austin,                    | June            | Attendee    |
| Research Management Committee 5 Meeting        | Texas                      | 2004            |             |
| NCEES, Civil Engineering Examination           | Greenville,                | August          | Member      |
| Committee                                      | South Carolina             | 2004            |             |
| Southwestern Brick Institute, Masonry          | Houston,                   | August          | Participant |
| Professor's Roundtable Discussion              | Texas                      | 2004            |             |
| Associated Schools of Construction – Region    | Dallas,                    | September       | Attendee    |
| V Annual Meeting                               | Texas                      | 2004            |             |
| QUION / Region V – Associated Schools of       | Dallas,                    | September       | Attendee    |
| Construction Educators Conference              | Texas                      | 2004            |             |
| Texas Department of Transportation,            | Austin,                    | September       | Member      |
| RMC 5 Technical Advisory Panel Meeting         | Texas                      | 2004            |             |
| American Institute of Steel Construction,      | Rosemont,                  | September       | Attendee    |
| Construction Management Faculty Workshop       | Illinois                   | 2004            |             |
| American Society of Civil Engineers,           | Houston,                   | October         | Reviewed    |
| Texas Section Fall Meeting                     | Texas                      | 2004            | Papers      |

| Accreditation Board for Engineering and<br>Technology (ABET) Workshop   | Nashville,<br>Tennessee         | October<br>2004 | Attendee           |
|---|---------------------------------|-----------------|--------------------|
| Transportation Research Board Workshop on<br>Bridge and Tunnel Security Update  | Washington, D.C.                | January<br>2005 | Presenter          |
| NCEES, Civil Engineering Examination Committee  | Clemson,<br>South Carolina      | January<br>2005 | Member             |
| First Annual Advancing Teaching and Learning Conference   | Lubbock,<br>Texas               | March<br>2005   | Attendee           |
| American Society of Civil Engineers,<br>Texas Section Spring Meeting  | Austin,<br>Texas                | April<br>2005   | Reviewed<br>Papers |
| Southwestern Brick Institute, Masonry Professor's Roundtable Discussion   | Bryan/College<br>Station, Texas | August<br>2005  | Participant        |
| Associated Schools of Construction – Region V Annual Meeting  | Dallas,<br>Texas                | September 2005  | Attendee           |
| QUION / Region V – Associated Schools of<br>Construction Educators Conference   | Dallas,<br>Texas                | September 2005  | Attendee           |
| American Society of Civil Engineers,<br>Texas Section Fall Meeting  | El Paso,<br>Texas               | October<br>2005 | Reviewed<br>Papers |
| American Institute of Steel Construction,<br>Educator Session: Introduction to the new<br>AISC 2005 Specification for Structural Steel<br>Buildings | Chicago,<br>Illinois            | October<br>2005 | Attendee           |
| NCEES, Civil Engineering Examination Committee  | Greenville,<br>South Carolina   | October<br>2005 | Member             |
| NCEES, Civil Engineering Examination<br>Committee   | Clemson,<br>South Carolina      | January<br>2006 | Member             |
| NCEES, Civil Engineering Examination<br>Committee   | Clemson,<br>South Carolina      | July<br>2005    | Member             |
| Associated Schools of Construction – Region V Annual Meeting  | Dallas,<br>Texas                | September 2006  | Attendee           |
| QUION / Region V – Associated Schools of Construction Educators Conference  | Dallas,<br>Texas                | September 2006  | Attendee           |
| Texas Department of Transportation,<br>RMC 5 Technical Advisory Panel Meeting   | Austin,<br>Texas                | September 2006  | Member             |
| NCEES, Civil Engineering Examination Committee  | Clemson,<br>South Carolina      | January<br>2007 | Member             |
| ASCE, CI, Construction Engineering Education Committee  | Bahamas                         | May<br>2007     | Member             |
| Associated Schools of Construction – Region V Annual Meeting  | Dallas,<br>Texas                | September 2007  | Attendee           |
| QUION / Region V – Associated Schools of<br>Construction Educators Conference   | Dallas,<br>Texas                | September 2007  | Attendee           |
| NCEES, Civil Engineering Examination<br>Committee   | Clemson,<br>South Carolina      | September 2007  | Member             |

|   | •                      | <i>,</i>        |                   |
|---|------------------------|-----------------|-------------------|
| American Council on Education, "Chairing the  | Austin,                | November        | Attendee          |
| Academic Department: A Workshop for           | Texas                  | 2007            |                   |
| Division and Department Chairs and Deans"     |                        |                 |                   |
| NCEES, Civil Engineering Examination          | Clemson,               | January         | Member            |
| Committee                                     | South Carolina         | 2008            |                   |
| NCEES, Civil Engineering Examination          | Clemson,               | April           | Member            |
| Committee                                     | South Carolina         | 2008            |                   |
| American Society of Civil Engineers –         | Chicago,               | June            | Member            |
| Construction Institute, Construction          | Illinois               | 2008            |                   |
| Engineering Education Committee               |                        |                 |                   |
| American Society of Civil Engineers –         | Chicago,               | June            | Attendee          |
| Construction Institute, Construction Research | Illinois               | 2008            |                   |
| Conference                                    |                        |                 |                   |
| NCEES, Civil Engineering Examination          | Clemson,               | July            | Member            |
| Committee                                     | South Carolina         | 2008            |                   |
| Associated Schools of Construction – Region   | Dallas,                | September       | Attendee          |
| 5 Annual Meeting                              | Texas                  | 2008            |                   |
| QUOIN / Associated Schools of Construction    | Dallas,                | September       | Attendee          |
| – Region 5 Educator's Conference              | Texas                  | 2008            |                   |
| NCEES, Civil Engineering Examination          | Clemson,               | October         | Member            |
| Committee                                     | South Carolina         | 2008            |                   |
| American Society of Civil Engineers, Texas    | Lubbock,               | January         | Member            |
| Section, Caprock Branch                       | Texas                  | 2009            |                   |
| NCEES, Civil Engineering Examination          | Clemson,               | July            | Member            |
| Committee                                     | South Carolina         | 2009            |                   |
| Kiewit Corp., Construction Professor's        | Omaha,                 | August          | Attendee          |
| Workshop                                      | Nebraska               | 2009            |                   |
| Associated Schools of Construction – Region   | Dallas,                | October         | Attendee          |
| V Annual Meeting                              | Texas                  | 2009            |                   |
| QUION / Region V – Associated Schools of      | Dallas,                | October         | Attendee          |
| Construction Educators Conference             | Texas                  | 2009            |                   |
| American Society of Civil Engineers, Texas    | Lubbock,               | May             | Attendee          |
| Section, Caprock Branch Meeting, Webinar:     | Texas                  | 2010            |                   |
| Texas Board of Professional Engineers         |                        |                 |                   |
| Update, Including Professional Practice and   |                        |                 |                   |
| Ethics  |                        |                 |                   |
| NCEES, Civil Engineering Examination          | Clemson,               | July            | Member            |
| Committee Meeting                             |                        | 2010            |                   |
| Committee Meeting                             | South Carolina         | 2010            |                   |
| TEXO / Associated Schools of Construction –   | South Carolina Dallas, | 2010<br>October | Attendee          |
| TEXO / Associated Schools of Construction –   |                        |                 | Attendee          |
|   | Dallas,                | October         | Attendee Attendee |

# **Professional Organizations:**

| Organization  | Position | Dates          |
|---|----------|----------------|
| Chi Epsilon National Honorary Civil Engineering Fraternity    | Member   | 1980 – Present |
| American Concrete Institute                                   | Member   | 1988 – Present |
| American Society of Civil Engineers:                          |          |                |
| - National  | Member   | 1992 – Present |
| - Texas Section:  | Member   | 1994 – Present |
| Structural Group  | Member   | 1997 - 2005    |
| - Caprock Branch  | Member   | 1994 – Present |
| The Masonry Society   | Member   | 1995 – 2006    |
| Structural Engineering Institute of American Society of Civil | Charter  | 1996 – Present |
| Engineers   | Member   |                |
| American Institute of Steel Construction                      | Member   | 2006 – Present |
| Construction Engineering Institute, American Society of       | Member   | 2007 – Present |
| Civil Engineers   |          |                |
| American Society of Engineering Educators                     | Member   | 2007 – Present |

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