

December 2010

Name: Jay A. Puckett, Professor of Civil Engineering

Address: Department of Civil and Architectural Engineering
University of Wyoming
Box 3295, University Station
Laramie, WY 82071
Tel: (307) 766-2223

Education:

Ph.D.	Civil Engineering, Colorado State University, December 1983 (3.95/4.00)
M.S.	Civil Engineering, Colorado State University, December 1980 (4.00/4.00)
B.S.	Civil Engineering, University of Missouri, May, 1978 (3.90/4.00)

Professional Registration:

Structural Engineering, Wyoming Reg. No. 5906

Experience:

V.O. Smith Professorship September 2007 to present.

Professor and Department Head, Civil and Architectural Engineering, August 2002 to August 2007.

Professor of Civil Engineering, University of Wyoming, May 1992 to August 2002.

Professor of Civil Engineering, Virginia Polytechnic and State University, Sabbatical Leave, 1992-93.

Associate Professor of Civil Engineering, University of Wyoming, July 1987 to April 1992.

Assistant Professor of Civil Engineering, University of Wyoming, August 1983 to July 1987.

Instructor of Civil Engineering, Colorado State University, August 1979 to August 1983.

Consulting:

Expert witness/testimony regarding U.S. Patent Application No. 10/814,331, (structural damping devise for high-mast poles) (Fall 2006)

Federal Highway Administration, USDOT, Office of International Programs (2002 – 2003)

American Association of State Highway and Transportation Officials (AASHTO), Development of the next substructure design software, *Opis* (2001-present)

American Association of State Highway and Transportation Officials (AASHTO), Development of the next generation of bridge load rating and design software, *VIRTIS& OPIS* (1994-present)

President, BridgeTech, Inc., Laramie, WY, Software development (1988 - present)

Modjeski and Masters, Inc., NCHRP 12-42, Miscellaneous Maintenance of the AASHTO LRFD Bridge Design Specification (1993 – 2001)

BridgeTech, Inc. AASHTO Bridge Design System -- A Critical Review, (1995-1996)

Gage and Moxley, Cheyenne, WY (1991-1992), Expert Testimony

ARK Industries, Laramie, WY, (1992) Structural Engineering

K-Span of Colorado, Colorado Springs CO, (1992 - 1995), Structural Engineering Software

Wyoming Highway Department, Cheyenne, WY (1990 - present): Software Development

Imbsen and Associates, Sacramento, CA (1989 - 1992): Software Development

MIC, Inc. Washington, DC (1989): Software Development, Laboratory Testing, Structural Modeling.

Wyoming Highway Department, Cheyenne, WY (1988 - 1989): Computing and Information Strategic Planning Study.

NCHRP 12-33 Task Force to Develop an AASHTO Specification for the Evaluation and Rating of Bridges, Prime Contractor: Modjeski and Masters (1989 - 1993)

Knudson, Ltd., Broomfield, CO (1984 - 1986): Metal Building Design Software Development

Engineering Computer Corporation, Sacramento, CA (1985 - 1987): Bridge Engineering Software Development

Professional Organizations:

American Society of Civil Engineers
American Society for Engineering Education
American Concrete Institute
Structural Engineering Institute/ASCE (founding member)

Honor Societies and Awards:

Awards

Appointed the V.O. Smith Chair for Infrastructure, Department of Civil and Architectural Engineering, University of Wyoming (September 2005 to present)

Selected the University of Missouri at Columbia Department of Civil Engineering, *Academy of Distinguished Alumni*, October 2000.

Selected for the *Outstanding Research and Graduate Teaching Award*, College of Engineering, University of Wyoming, 1998.

Selected for the American Society for Engineering Education *DOW Outstanding Young Educator Award*, a national award recognizing excellence in teaching and research, 1988.

Selected *Most Outstanding Professor* by the Chi Epsilon Chapter at Colorado State University, 1981.

Societies

Sigma Xi
Phi Kappa Phi
Chi Epsilon

Tau Beta Pi

Theses Directed:

1. Ph.D. Matt Peavy, in progress
2. M.S. Addison MacMahon, in progress
3. M.S. Rebecca Johnson, in progress
4. M.S. Structural Engineering, Evan O'Toole, in progress
5. Ph.D. Patrick McManus, 2010
6. M.S. Structural Engineering, Hermon Russom, 2010
7. M.S. Structural Engineering, Emily Ahern, 2010
8. M.S. Structural Engineering, Chris Schabron, 2009.
9. M.S. Structural Engineering, Richard Price, 2008.
10. M.S. Structural Engineering, John Peiffer, 2008.
11. M.S., Structural Engineering, Charles Brisko, 2002.
12. M.S., Structural Engineering, Brent Deschamp, (with T. Hamilton), 2001
13. M.S., Structural Engineering, Patrick McManus, (with T. Hamilton), 2000
14. M.S., Structural Engineering, Mathew McBride, 1999
15. M.S., Structural Engineering, Peili Wang, (with T. Hamilton), 1999
16. M.S., Structural Engineering, Brian Gray, (with T. Hamilton), 1999
17. M.S., Structural Engineering, Scott Riggs, (with T. Hamilton), 1998.
18. M.S., Structural Engineering, Jin Wang, 1998
19. Ph.D. Brian Bramel, Structural Engineering (with C. Dolan)
20. M.S. Structural Engineering, B. Goodrich, 1999
21. M.S., Structural Engineering, C. Fogstaad, (with C. Dolan), 1996.
22. M.S., Structural Engineering, T. Galloway (with C. Dolan), 1996
23. M.S., Structural Engineering, R. Thomas, 1996
24. M.S., Structural Engineering, D. Wellock, 1994
25. M.S., Structural Engineering, R. Merchant (with C. Dolan), 1994
26. M.S., Structural Engineering, J. Kostage (with C. Dolan), 1994
27. M.S., Structural Engineering, R. Croft (with C. Dolan), 1994
28. M.S., Structural and Software Engineering, C. Stauffer, 1993
29. M.S., Structural Engineering, T.R. Finch, 1992
30. M.S., Structural Engineering, M. Gralund, 1992
31. M.S., Structural and Software Engineering, C. Clancy, 1992
32. M.S., Structural Engineering, B. Raza, 1990
33. M.S., Structural Engineering, S. R. Lieber, 1989
34. M.S., Structural Engineering, R. Naiknavare, 1989
35. Ph.D., Structural Engineering, Chin Chen (CSU), 1989
36. M.S., Structural Engineering, R. B. D'Spain, 1988
37. M.S., Structural Engineering, P. W. Guenther, 1988
38. M.S., Structural Mechanics, D. L. Wiseman, 1987
39. M.S., Structural Engineering, C. A. Pohl, 1986
40. M.S., Structural Engineering, J. D. Lohrer, 1986
41. M.S., Structural Engineering, F. A. Atkinson, 1986
42. M.S., Software, L. R. Reasch, 1986
43. M.S., Structural Engineering, J. L. Groom, (with T. Edgar), 1985
44. M.S., Structural Mechanics, G. J. Lang, 1985

Most of these students were funded through research projects.

Journal Editor:

Editor, *ASCE Bridge Engineering Journal* (1995 - 1998) (Member of the Initial Editorial Board that started this journal)

Scientific and Professional Committees:

Building Smart BIM in Education: Curriculum, Research and Physical Plant (survey team) 2008

Standing Committee on Conferences (2007-present)

AEI BIM Panel Organizer (AEI Conference Denver 2008)

AASHTO/NSBA TG13 – Analysis of Steel Girder Bridges (2007-present)

NCHRP 12-56, “Joint Committee to Review Shear Specification Provisions” (2006)

NCHRP 12-56, “Application of the LRFD Bridge Design Specifications to High-Strength Structural Concrete: Shear Provisions (typical NCHRP panel for time commitment -- \$650,000) (ended 2007)

ASCE Committee on Timber Bridges (1997-2001)

ASCE Committee on Safety of Bridges (1988 - 1996)

ASCE Committee on Education, Structural Analysis Control Group Member (1992-1994)

ASCE Committee on Methods of Analysis (1982 - 1993)

ASCE Committee on Educational Needs in Bridge Engineering
(1986 - 1989) (Chairperson)

ASCE Referee for the *Journal of Computing in Civil Engineering*

Referee for NSF

Referee for Strategies Highway Research Program (SHRP)

Note: Referee activities are numerous and are not itemized.

Professional Service:

General:

National Council of Examiners for Engineers and Surveyors – Bridge Engineering (fall 2008 -)

ABET Program Evaluator

Chair, AEI Academic Council, (head of AEI department heads nationally)

ABET Reviewer/Visitor in Training 2008-2009

UW Faculty Senate Chairperson Elect (2008-09)

Member, North Central Accreditation Team, 2008 to 2010.

UW Faculty Senate (2007-present)

UW Ad Hoc Committee to review Portfolio Management Systems (Associate VPAA committee) (2005-present)

Professional Advisor Committee for the Architectural Engineering Professional Engineering Examination (2007-present)

Member, Dean’s College of Engineering Communications Committee (2005-present)

College Promotion and Tenure Committee (Spring 2002)
College of Engineering Curricula Committee (2001 – 2002)
Civil and Architectural Engineering Curriculum Committee (**chairperson**), 2000 – 2002.
Engineering Dean's Publications Editorial Advisory Committee (**chairperson**), 2000 – 2002.
Graduate and Professional Student Recruitment, UW **President's** Enrollment Management Study (1999 – 2000)
President's Committee on Budget Review (1997 -1998)
University Budget Committee, **Chair** (1994- 1996)
Numerous Short Courses (see itemized list below)
Departmental Curriculum Committee (1993- ??)
Review Committee NSF Young Investigator Program (1992)
Task Group Member NSF Research Needs in Bridge Engineering (1992)
Chairperson, Dean's Task Force for Planning (1989)
Member-at-Large, Faculty Senate **Executive Council** (1989-1991)
Member of Vice Presidential Search Committee
Member of Vice Presidents Task Force to Study the CSU-UW Microwave Link Project and UW Entry into Video Instruction
UW Centennial Committee
Member of a departmental committee to prepare for the ABET review (1985)
Faculty Senator
Member of Civil Engineering Graduate Committee (**Chairperson**)
Member of Dean's Five-Year Planning Committee
Faculty Advisor to the Student Chapter of ASCE at Colorado State University
Reviewer for the National Science Foundation
Reviewer for PWS Publishing, Inc.

Related to Computing:

Collaboration & Document Sharing Tools Taskforce – charge and appointment (2009 – present)
Member of Task Force to Develop a Campus-wide Workstation Purchase Plan
Subcommittee for College Curriculum Review regarding Computing (**Chairperson**).
College representative on the Computer Center Advisory Committee (**Chairperson**).
Member of Civil Engineering Computer Committee.
Member of a Vice Presidential Task Force to Study Acquisition of a DEC Mainframe Computer.
Member of a Dean's Task Force to study computing needs in the College of Engineering.
Ex-officio Member of the College of Engineering Computer Committee.
Member of a Vice Presidential Task Force to Study Campus-Wide Microcomputing.

Faculty Affiliation:

Faculty affiliate in the Department of Civil Engineering, Colorado State University, 1986 - 2004.

Books:

Puckett, J.A. and Coletti, D. *National Steel Bridge Alliance Steel Bridge Design Handbook*, Chapter 10: Structural Analysis, peer review is complete.

Barker, R.M. and **Puckett, J.A.**, *Design of Highway Bridges – Based on AASHTO LRFD Bridge Design Specification*, John Wiley and Sons, New York, 2011, Third Edition, **scheduled 2011**.

Barker, R.M. and **Puckett, J.A.**, *Design of Highway Bridges – Based on AASHTO LRFD Bridge Design Specification*, John Wiley and Sons, New York, 2007, Second Edition, 1009 pgs.

Barker, R.M. and **Puckett, J.A.**, *Design of Highway Bridges – Based on AASHTO LRFD Bridge Design Specification*, John Wiley and Sons, New York, 1997, 1169 pgs.

Patents:

Patent 6,857,615B2, "Mechanical Damper for Structures," **Puckett, J.A.**, Hamilton, H.R., and Patrick McManus, February 2005.

Preliminary Patented Filed, "Shimmed WT Beam-to-Column Connection for Structural Seismic Load Resisting Systems" Puckett, J.A. and Patrick S. McManus, July 2010.

Refereed Publications (proceedings and journals):

Puckett, J.A., Erikson, R.G., and Peiffer, J. J., "Fatigue Performance of Ring-Stiffened Traffic Signal Poles", Structures Journal, ASCE, Vol. 136, No. 10, October 2010.

Arun M. Shirole', Stuart S. Chen, and Jay A. Puckett, "BrIM Based Bridge Operations and Management," Fifth International Conference on Bridge Maintenance, Management, and Safety, Philadelphia, PA July 2010. Accepted.

Shirole', A.M., Riordan, T.J., Chen, S.S., Qiang, G. Hanjin, H., Puckett, J.A., "BrIM for Project Delivery and the Life Cycle: State of the Art," Proceeding 5th New York City Bridge Conference, NY, NY. 2009. (pending publication –accepted)

Price, R.L., Puckett, J.A., Barker, R.M, and Gerow, K.G., "Use Of Wind Power Maps To Establish Fatigue Design Criteria For Cantilever Traffic Signal Structures", Proceedings Annual Transportation Research Board, Jan. 2009.

Puckett, J.A., Chen, S.S., Shirole', A.M., Srikonda, R, Gao, Q, Parametric 3d-Centric Design And Construction Of Concrete Bridges, Concrete Bridge Conference, 2008.

Chen, S.S., Shirole', A.M., Puckett, J.A., and Gao, Q. "BrIM: An Innovative Approach to Managing Bridge Project Delivery", *2008 International Conference on Transportation Construction Management Proceedings*. Orlando, FL, September 2008. (TRB review)

Shirole', A.M., Chen, S.S., and Puckett, J.A., "Bridge Information Modeling for the Lifecycle: Progress and Challenges", *Proceedings FHWA Conference on Bridge Management*, Buffalo, NY, Sept. 2008. (TRB review)

Puckett, J.A., Chen, S.S., Shirole', A.M., Srikonda, R, Gao, Q, Parametric 3d-Centric Design And Construction Of Concrete Bridges, Concrete Bridge Conference, 2008 (TRB review).

Peavy, M.D., Talley, A, and Puckett, J.A., "New LRFD Design and Analysis Software for Reinforced Concrete Slab Bridges," *Proceedings National Concrete Bridge Conference*, Reno, NV, May 2006.

Patrick, M.D., Huo, X.S., Puckett, J.A., Jablin, M., and Mertz, D. "Sensitivity of Live Load Distribution Factors to Vehicle Spacing," ASCE Journal of Bridge Engineering, Technical Notes, Vol. 11, No. 1, January/ February 2006, pp.131-134.

Puckett, J.A. and Hearn, G., "Summary of FHWA International Scanning Tour For Bridge Preservation and Maintenance," Proceedings International Bridge Engineering Conference, TRB: 61BECS-108, July 2005.

Goodrich, B.L., Puckett, J.A., Jablin, M.C., "Validation of Specification Modification via NCHRP 12-50 Process," Proceedings International Bridge Engineering Conference, TRB: 6IBECS-108, July 2005.

Puckett, J.A., Huo, X.S., Patrick, M.D., Jablin, M.C., Mertz, D., Peavy, M.D, Simplified Equations for Live-Load Distribution in Highway Bridges, Proceedings International Bridge Engineering Conference, TRB: 6IBECS-069, July 2005.

P.S. McManus, Puckett, J.A., and Hamilton, H.R., "Damping in Cantilevered Traffic Signal Structures under Forced Vibration," ASCE Journal of Structural Engineering, ASCE, Vol 129, n 3., March 2003, pp 373-382.

Goodrich, B.L. and Puckett, J.A., "Comparison of LFR and LRFR Bridges," National Concrete Bridge Conference, National Concrete Bridge Association, Nashville, TN, Oct. 2002.

Puckett, J.A., "Comparative Study of AASHTO Load and Resistance Factor Design Distribution Factors for Slab-Girder Bridges," Transportation Research Record, No. 1770, pgs 34-37, 2001.

Puckett, J.A. and Mlynarski, M., "Bridge Software Validation Guidelines", Transportation Research Board, No. 1696, Vol. 2, 2001.

Hamilton, H.R., Riggs, G.S. and Puckett, J.A., "Increased Damping in Cantilevered Traffic Signal Structures," Journal of Structural Engineering, ASCE, Vol. 126, No. 4, New York, NY. (020106-ST).

Thompson, PD, Duray, JA; Campbell, JJ; Puckett, JA; Wright, B., "VIRTIS: AASHTO's New Bridge Load Rating System," Transportation Research Circular 448, Eighth International Bridge Management Conference, Denver, Colorado, June 2000.

Puckett, J.A., and Goodrich, B.G., "Simplified Approach for Live Load for Permit Vehicles with Non-Standard Axle Gages," Bridge Software Validation Guidelines," Journal of the Transportation Research Board, No. 1696, Vol. 2, pgs. 143-151, April 2000.

Puckett, J.A., Mark Mlynarski, Jablin, Clancy, C, "Bridge Software Validation Guidelines," Fifth International Bridge Engineering Conference, Tampa, FL, April 2000. (TRB Review)

Bramel, B. K., C. W. Dolan, J. A. Puckett & K. Ksaibati. "Asphalt Plug Joints: Refined Material Tests and Design Guidelines," *Transportation Research Record*, 126-134, 2000.

Goodrich, B.L. and Puckett, J.A., "Rating Factor Computations for Shear and Moment Interaction Using AASHTO-LRFD, ASCE Bridge Journal, Practitioner's Forum, Oct. 1998.

Hamilton III, H. R., Fowler, T. J., Puckett, J. A., "AE Evaluation of Fatigue Damage in Traffic Signal Poles", *Acoustic Emission: Standards and Technology Update, ASTM STP 1353*, S. J. Vahaviolos, Ed., American Society for Testing and Materials, 1998.

Thompson, Paul D., Duray, J.A., Puckett, J.A., and Jeffrey J. Campbell, "The Application of Object Technology in AASHTO's New Bridge Load Rating and Design Systems," The First International Conference on New Information Technologies for Decision Making in Civil Engineering, Montreal, 11-13, 1998 (TRB review)

Bramel, B.K., Puckett, J.A., Ksaibati, Khaled, and Dolan, C.W., "Asphalt Plug Joint Usage and Perceptions in the United States", Transportation Research Board 1594, National Academy of Sciences, Washington, DC, 1998.

Bramel, B.K., Dolan, C.W., Ksaibati, K., and Puckett, J.A., "Asphalt Plug Joints – Design Guidelines and Specification Development," 5th International Conference on Short and Medium Span Bridges, July 1998. (TRB review)

Dolan, C.W., Puckett, J.A., and Merchant, R.W., "Temperature Effects on Elastomeric Sealants for Bridge Joints," International Conference on Joints and Bearings, San Francisco, CA, October, 1996. (ACI Review)

Dolan, C.W., Puckett, J.A., and Kostage, J., "Experimental Evaluation of Asphalt Plug Joints," International Conference on Joints and Bearings, San Francisco, CA, October 1996. (ACI Review)

Merchant, R., Kostage, J., Dolan, C.W., and Puckett, J.A., "Performance of Elastomeric Sealants", International Conference on Short- and Medium-Span Bridges, Halifax, Nova Scotia, Canada, Aug., 1994 (TRB Review).

Croft, R., Puckett, J.A., Dolan, C.W., "Temperature Effects in Skewed Bridges," International Conference on Short- and Medium-Span Bridges, Halifax, Nova Scotia, Canada, Aug., 1994 (TRB Review).

Puckett, J.A., and Gralund, M.S., "A System for Bridge Management in a Rural Environment," *Journal on Computing in Civil Engineering*, ASCE, April, 1996.

Swift, D.P., Puckett, J.A., and Edgar, T.V., "A Finite Element Analysis of Cold Embedments in Fresh Concrete," *Journal of Cold Regions Engineering*, ASCE, Vol. 6, No. 2, June 1992.

Smith, S.S., Allen, M.B., Puckett, J.A., and Edgar, T.V., "The Finite-Layer Method for Groundwater Flow Models," *Water Resources Research*, Vol. 28, No. 6, June 1992.

Chen, C. J., Gutkowski, R. M., and Puckett, J. A., "B-Spline Compound Strip Formulation for Braced Thin-Walled Structures," *Journal of the Structural Engineering*, ASCE, Vol. 117, No. 5, May 1991.

Puckett, J. A., Clancy, Chad, and Pope, David, "An Effective Method for Linking Computer Aided Engineering Procedures with Computer Drafting," Proceedings, Third Bridge Engineering Conference, Denver, CO, May 1991. (TRB Review)

Chen, C. J., Gutkowski, R. M., and Puckett, J. A., "Spline Compound Strip Analysis of Plate Structure with Intermediate Supports," *Computers and Structure*, to appear.

Puckett, J. A., Lieber, S. R., and Glandt, D. A., "An Automated Procedure for the Regulation of Overweight Vehicles," Proceedings, International Conference on Short and Medium Span Bridges, Toronto, Canada, August 1990. (TRB Review)

Puckett, J. A., and Wiseman, D. L., "The Compound Strip Method for Folded Plates with Connecting Elements," *Journal of Structural Engineering*, ASCE, Vol. 117, No. 1, January 1991.

Wiseman, D. L., and Puckett, J. A., "Applications of the Compound Strip Method for Folded Plates with Connecting Elements," *Journal Structural Engineering*, ASCE, Vol. 117, No. 1, Jan. 1991.

Puckett, J. A., and Schmidt, R. J., "Finite Strip Method for Groundwater Modeling in a Parallel Computing Environment," *Engineering Computation*, Vol. 7, No. 2, June, 1990.

Gutkowski, R. M., C. J. Chen & J. A. Puckett (1991) Developments in the use of cubic B-splines in the compound strip method. *Mechanics Computing in 1990's and Beyond*, 124-128.

Gutkowski, R. M., Chen, C. J., and Puckett, J. A., "Plates Bending Analysis by Unequally Spaced Splines," *Thin-Walled Structures - An International Journal*, Vol. 9, No. 11, 1991, pp. 409-430.

Edgar, T. V., Puckett, J. A. and D'Spain, R. B., "Effects of Geotextiles in Lateral Pressure and Deformation in Highway Embankments," *Journal of Geotextiles and Geomembranes -An International Journal*, Vol. 7, No. 8, August 1989, pp. 275-292.

Gutkowski, R. M., Chen, C., and Puckett, J. A., "B-Spline Compound Strip Analysis of Stiffened Plates Under Transverse Loading," *Computers and Structures*, Vol. 34, No. 2, Feb. 1990.

Puckett, J. A. and Guenther, P. W., "Linking Civil Engineering Design and Drafting via IGES," *Journal of Computing in Civil Engineering*, ASCE, Vol. 3, No. 3, 1989, pp. 228- 237.

Edgar, T. V., Puckett, J. A., and Richardson, J. B., "Region Recognition Using Area Method," *Microcomputers in Civil Engineering - An International Journal*, Vol. 4, No. 1, 1989, pp. 81-85.

Puckett, J. A. and Lang, G. J., "Compound Strip Method for the Frequency Analysis of Continuous Plates," *Thin-Walled Structures - An International Journal*, Vol. 7, No. 8, 1989, pp. 165-182.

Puckett, J. A., and Atkinson, F., "Ultimate Strength of Wood Walls in Tension - A Pilot Study," *Journal of Structural Engineering*, ASCE, Vol. 115, No. 7, July 1989, pp. 1782- 1794.

Ewing, R. E., Espedal, M. S., Puckett, J. A., and Schmidt, R. J., "Simulation Technique for Multiphase and Multicomponent Flows," *Communications in Applied Numerical Methods*, Vol. 4, April 1988, pp. 335-342.

Puckett, J. A., Wiseman, D. L., and Chong, K. P., "Compound Strip Method for the Buckling Analysis of Continuous Plates," *Thin-Walled Structures - An International Journal*, Vol. 5, No. 5, 1987, pp. 385-402.

Edgar, T. V., Puckett, J. A., Sherman, W. A., and Groom, J., "Utilizing Geotextile Highway Bridge Approach Embankments," *Geotextiles and Geomembranes - An International Journal*, Vol. 5, No. 1, 1987.

Puckett, J. A., Reasch, L. R., and Edgar, T. V., "Interactive Shell for Batch Programs," *Microcomputers in Civil Engineering - An International Journal*, Vol. 1, No. 2, Oct. 1986.

Puckett, J. A., and Lang G. J., "Compound Strip Methods for the Free Vibration Analysis of Continuous Rectangular Plates," *Journal of the Mechanics Division*, ASCE, Vol. 112, No. 12, Dec. 1986.

Puckett, J. A., and Lang, G. J., "Compound Strip Method for the Analysis of Curved Sector Plates," *Journal of the Mechanics Division*, ASCE, Vol. 112, No. 5, May 1986.

Puckett, J. A., "Application of the Compound Strip Method for the Analysis of Slab-Girder Bridges," *Computers and Structures*, Vol. 22, No. 6, March 1986.

Puckett, J. A., and Gutkowski, R. M., "Compound Strip Analysis of Continuous Elastic Plates," *Journal of Structural Engineering*, ASCE, Vol. 112, No. 1, Jan. 1986.

Puckett, J. A., "Introduction to Synthesis in the First Mechanics Course," *Engineering Education*, American Society for Engineering Education, Feb. 1984.

Vanderbilt, M.D., Goodman, J.R., and Puckett, J.A., "Testing of Large Timber Poles", lost reference??.

Refereed Publications in Review or being finalized:

Puckett, J.A., Huo, X.S., Jablin, M, Mertz, D.R., “A Frame work for Simplified Live-Load Distribution-Factor Equations”, Journal of Bridge Engineering, ASCE, in review.

Puckett, J.A., Huo, X.S., Jablin, M, Mertz, D.R., “Simplified Live-Load Distribution-Factor Equations Implementation Issues: Steel Spread Tub-Girder Bridges”, Journal of Bridge Engineering, ASCE, in progress.

Patrick S. McManus, P.S. and Puckett, J.A., “Economic and Serviceable Structural Steel Seismic Load Resisting Systems: Part I”, Engineering Journal, AISC, Chicago IL, in review.

Patrick S. McManus, P.S. and Puckett, J.A., “Economic and Serviceable Structural Steel Seismic Load Resisting Systems: Part II”, Engineering Journal, AISC, Chicago IL, in review.

Schabron C. M. and Puckett, J.A., “Fatigue Testing of Traffic Signal Structures Using an Eccentric-Mass Oscillator”, ASTM Journal Testing, in progress.

Ahearn E. B. and Puckett, J.A., The Effect of Traffic Vibrations on the Dynamic Response of High-Mast Light Poles”, in progress.

Ahearn E. B. and Puckett, J.A., “Reduction of Wind-Induced Vibration in High-Mast Light Poles”, Journal of Structural Engineering, ASCE, in review.

Non-Refereed Publications and Presentations (Conferences, Workshops, Specification Committees, etc):

1. Puckett, J.A. and Jablin, M., “LRFR Culvert Rating – Issues and Suggestions”, TRB International Bridge Engineering Conference, Dec. 2010, San Antonio, TX.
2. Puckett, J.A., Johnson, R. Ahearn, E., “Overview of the CSA Specification for Vortex-induced-Vibration and High-mast Poles, presentation to the Subcommittee on Bridges and Structures, Technical Committee T-12, 2010, Sacramento, CA.
3. Peiffer, J., Puckett, J.A., Erikson, R.E., “Fatigue Testing of Ring-stiffened Connection”, presentation to the Subcommittee on Bridges and Structures, Technical Committee T-12, May 20, 2008, Omaha, NE.
4. Chen, S.C., Puckett, J.A., Shirole, A. “Integrated Bridge Project Delivery System”, presentation to the Subcommittee on Bridges and Structures, Technical Committee T-19, May 20, 2008, Omaha, NE.
5. Price, R.L., Puckett, J.A., and Barker, M.J, “Use of Wind Resource Maps to Predict Cracking in Traffic Structures”, presentation to the Subcommittee on Bridges and Structures, Technical Committee T-12, May 20, 2008, Omaha, NE.
6. Puckett, J.A., Goodrich, B.L, Jablin, M.C., and Peavy, M.D., “Update on BRASS software”, presentation to the Subcommittee on Bridges and Structures, Technical Committee T-19, May 20, 2008, Omaha, NE.
7. Puckett, J.A., Huo, X.S., Mertz, D., “Simplified Live Load Distribution Method – NCHRP 12-62 – Steel Bridges”, AASHTO Subcommittee on Bridges and Structures, Technical Committee T-14, 2007, Wilmington, DE.
8. Puckett, J.A., Huo, X.S., Mertz, D., “Simplified Live Load Distribution Method – NCHRP 12-62 – Analysis Issues”, AASHTO Subcommittee on Bridges and Structures, Technical Committee T-05, 2007, Wilmington, DE.

9. Puckett, J.A., Huo, X.S., Mertz, D., "Simplified Live Load Distribution Method – NCHRP 12-62 - Primary Issues (Analysis, Multiple presence, and Variability)", AASHTO Subcommittee on Bridges and Structures, Technical Committee Joint Session, 2007, Wilmington, DE.
10. Puckett, J.A., Jablin, M.C., Peavy, M.D. and Goodrich, B.G., "AASHTO's Intelligent Specifications – SpecML," AASHTO Subcommittee on Bridges and Structures, T-19, Snowbird, UT, May 2006.
11. Puckett, J.A., Jablin, M.C., Peavy, M.D. and Goodrich, B.G., "AASHTO's Intelligent Specifications – Executive Briefing," AASHTO Subcommittee on Bridges and Structures, Executive Meeting, Snowbird, UT, May 2006.
12. Puckett, J.A. and Barker, M.G., "Changes to the 2001 AASHTO Design Specification for Pole and Illuminaires (update on NCHRP 20-07 (209)," AASHTO Subcommittee on Bridges and Structures, T-12, Snowbird, UT, May 2006.
13. Puckett, J.A., Goodrich, B.G. and Jablin, M.C., "Enhancements of WYDOT's BRASS Pier Program for the AASHTO Bridge Design Specification," Opis, Virtis, BRASS Users' Group Meeting, Burlington, VT, July 2004.
14. Puckett, J.A. and Goodrich, B.G., "Merger of BRASS Standard Specification Program with LRFD Program," Opis, Virtis, BRASS Users' Group Meeting, Burlington, VT, July 2004.
15. Puckett, J.A., AASHTO Opis Short Course, AASHTO Virtis/Opis/BRASS Users Group Meeting, Orange Beach, AL, August 2003.
16. Goodrich, B.L., Puckett, J.A., and Jablin, M.C., *LFD and LRFR Methods for Bridges*, AASHTO Virtis/Opis/BRASS Users Group Meeting, Orange Beach, AL, August 2003.
17. Puckett, J.A. and Peavy, M.D., *Update on Opis' Finite Element Engine*, AASHTO Virtis/Opis/BRASS Users Group Meeting, Orange Beach, AL, August 2003.
18. Goodrich, B.L., Puckett, J.A., and Jablin, M.C., Comparisons of LFD and LRFR methods for Bridges, AASHTO Subcommittee on Bridges and Structures, T-18, Albuquerque, NM, June 2003.
19. Goodrich, B.L., Puckett, J.A., and Jablin, M.C., *Comparisons of LFD and LRFR Methods for Bridges*, AASHTO Subcommittee on Bridges and Structures, T-18, Albuquerque, NM, June 2003.
20. Goodrich, B.L., Puckett, J.A., and Jablin, M.C., *Implementation of AASHTO LRFD 6.10 Revisions – Commentary Regarding Adoption*, AASHTO Subcommittee on Bridges and Structures, Main Session, Albuquerque, NM, June 2003.
21. Goodrich, B.L., Puckett, J.A., and Jablin, M.C., *Implementation of AASHTO LRFD 6.10 Revisions*, AASHTO Subcommittee on Bridges and Structures, T-14, Albuquerque, NM, June 2003.
22. Puckett, J.A. and Mlynarski, Bridge Software Validation Update, NCHRP 12-50, AASHTO Subcommittee on Bridges and Structures, T-19, Albuquerque, NM, June 2003.
23. Goodrich, B.L. and Puckett, J.A., "Comparison of LFR and LRFR Bridges," Invited presentation to the University of Illinois Bridge Engineering Workshop, April 2003.
24. "Fatigue Damage Characteristics of Cantilever Traffic Signal Structures," Transportation Research Board Annual Meeting, January 2003, Washington, DC.
25. "Fatigue Testing of Traffic Signal Structures," 2002 Structures Congress, Denver CO, April 3-6, 2002.

26. Puckett, J.A., Hamilton, H.R., Gray, B., Wang, P., and Deschamp, B., "Fatigue Testing of Traffic Signal Structures", AASHTO T-18 Technical Subcommittee, Special Interim Meeting, Las Vegas, NV, November 2002.
27. Mlynarski, M. and Puckett, J.A., "Research Pays Off", Transportation Research News, No. 216, pgs. 24-25, Sept-Oct. 2001.
28. Puckett, J.A., and Tadros, M.K., Design for Shear in Prestressed Concrete Bridge Members, Open Forum, PCI Journal, May-June 2001, Vol. 46, No. 3, P90-93.
29. Puckett, J.A., Duray, J.A., Campbell, J.J., and Thompson, P.D., "Update of AASHTO's Virtis/Opis", Western Bridge Engineers' Seminar, Sacramento, CA, September 2001.
30. Puckett, J.A. and Mlynarski, M., "NCHRP 12-50 Software Validation Guidelines", Western Bridge Engineers' Seminar, Sacramento, CA, September 2001.
31. Puckett, J.A., "Testing and Update on BRASS-Culvert", BRASS/Opis/Virtis National Users' Group Meeting, Albuquerque, NM, August 2001.
32. Goodrich, B. G. and Puckett, J.A., "Update on BRASS Girder-LRFD", BRASS/Opis/Virtis National Users' Group Meeting, Albuquerque, NM, August 2001.
33. Glandt, D.A., and Puckett, J.A., "Update on BRASS Girder-STD", BRASS/Opis/Virtis National Users' Group Meeting, Albuquerque, NM, August 2001.
34. Puckett, J.A., "Update and Implementation of NCHRP 12-50", BRASS/Opis/Virtis National Users' Group Meeting, Albuquerque, NM, August 2001.
35. Puckett, J.A., Mlynarski, M., Jablin, M., Clancy, C., "Implementation of NCHRP 12-50 and Its Extension for LRFR", Annual Meeting of the Subcommittee on Bridges and Structures, T-19, Seattle, WA, May 2001.
36. L.R. Reasch, Puckett, J.A., Mark Mlynarski, M. Jablin, Clancy, C., "Update and Implementation of NCHRP 12-50", Main Session Annual Meeting of the Subcommittee on Bridges and Structures, Seattle, WA, May 2001.
37. Puckett, J.A., Duray, J.A., Campbell, J.J., and Thompson, P.D., "Update of AASHTO's Virtis/Opis", Annual Meeting of the Subcommittee on Bridges and Structures, T-19, Seattle, WA, May 2001.
38. Puckett, J.A., Duray, J.A., Campbell, J.J., and Thompson, P.D., "Update of AASHTO's Virtis/Opis", Main Session Annual Meeting of the Subcommittee on Bridges and Structures, Seattle, WA, May 2001.
39. Puckett, J.A., "Load Testing Requirement Outlined in the AASHTO LRFR Specification", Bridge Load Testing and Rating Workshop, Kansas City, Mo. March 2001.
40. Puckett, J.A., "New Technologies in Civil Engineering", Wyoming Engineering Society, Casper, WY, February 2001.
41. Puckett, J.A., "Comparative Study of AASHTO LRFD Distribution Factors", Transportation Research Board Annual Meeting, January 2001, Washington, DC.
42. Puckett, J.A., Thompson, P.D., Duray, J.A., Campbell, J.J., AASHTO's Bridge Load
43. Rating and LRFD Bridge Design Software Overview and Steel Design Review Example", Transportation Research Board Annual Meeting, January 2001, Washington, DC.
44. Puckett, J.A., Thompson, P.D., Duray, J.A., Campbell, J.J., AASHTO's Bridge Load

45. Rating and LRFD Bridge Design Software Overview and Steel Design Review Example”, Transportation Research Board Annual Meeting, January 2001, Washington, DC.
46. Puckett, J.A., “Introduction to AASHTOWare Opus/Virtis – PCA Professors’ Seminar on Bridge Engineering”, Portland Cement Association, Skokie, IL, August 2000.
47. Puckett, J.A., Thompson, P.D., Duray, J.A., Campbell, J.J., “Virtis/Opis Report Writer”, AASHTO Virtis/Opis Users’ Group Annual Meeting, Minneapolis, MN, July 2000.
48. Jablin, M., Goodrich, B.G. and Puckett, J.A., “BRASS-Pier (LFD and LRFD) Maintenance and Development Efforts”, BRASS Users’ Group Annual Meeting, Minneapolis, MN, July 2000.
49. Jablin, M. and Puckett, J.A., “Prestressed Girder Analysis and Rating Verifications and Ongoing NCHRP Testing Efforts”, AASHTO Virtis/Opis Users’ Group Annual Meeting, Minneapolis, MN, July 2000.
50. Puckett, J.A. and Goodrich, B.G., “Recent Developments in LRFR and BRASS”, BRASS Users’ Group Annual Meeting, Minneapolis, MN, July 2000.
51. Goodrich, B.G. and Puckett, J.A., “Recent Modifications and Enhancements for BRASS-Girder (LRFD)”, BRASS Users’ Group Annual Meeting, Minneapolis, MN, July 2000.
52. Glandt, D.A. and Puckett, J.A., “Recent Modifications and Enhancements for BRASS-Girder”, BRASS Users’ Group Annual Meeting, Minneapolis, MN, July 2000.
53. Watters, M.J. and Puckett, J.A., “Update and Demonstration of BRASS-Culvert and BRASS-Culvert (LRFD)”, BRASS Users’ Group Annual Meeting, Minneapolis, MN, July 2000.
54. Puckett, J.A., “NCHRP 12-50 Bridge Software Validation Guidelines and Examples,” AASHTO Subcommittee on Bridges, Annual Meeting, Charleston, SC, June 2000.
55. Puckett, J.A. and H.R. Hamilton, “Research Update on Traffic Signal Poles,” AASHTO Subcommittee on Bridges, Annual Meeting, Charleston, SC, June 2000.
56. Goodrich, Brian and Puckett, J.A., “Simplified Approach for Live Load for Permit Vehicles with Non-Standard Axle Gages,” Bridge Software Validation Guidelines,” International Bridge Engineering Conference, Tampa, FL, April 2000. (TRB Refereed Review and presentation)
57. Puckett, J.A., Mark Mlynarski, Jablin, Clancy, C, “Bridge Software Validation Guidelines,” International Bridge Engineering Conference, Tampa, FL, April 2000. (TRB Refereed Review and presentation)
58. Puckett, J.A., “Development of a Process for Software Testing,” Bridge Design Workshop No. 6, Kansas State University, Manhattan, KS, October 1999.
59. H.R. Hamilton and Puckett, J.A., “Traffic Signal Structure Research” *Proceedings*, 1999 Structures Congress, New Orleans, April 19-21, 1999.
60. Duray, J., Puckett, J.A., and Campbell, J.J., “An Update on AASHTO’s New Bridge Load Rating and Design Systems Virtis/Opis,” Western Bridge Engineers Seminar, Seattle, WA, Oct. 1999.
61. Puckett, J.A., Mlynarski, M., Jablin, M., C. Clancy, and Wilson, K., “NCHRP 12-50 Bridge Software Validation Guidelines and Examples,” Western Bridge Engineers Seminar, Seattle, WA, Oct. 1999.
62. Jablin, M. and Puckett, J.A., “Update on Developments within BRASS-Pier (LRFD),” BRASS and AASHTO Opus/Virtis Users Group Meeting, Annual Meeting, Nashville, TN, July 1999.

63. Puckett, J.A., "Overview of Significant Changes in the AASHTO 16th Edition and AASHTO LRFD Specifications – Implications on Practice," BRASS and AASHTO Opis/Virtis Users Group Meeting, Annual Meeting, Nashville, TN, July 1999.
64. Glandt, D.A. and Puckett, J.A., "Conversion of Delaware BRASS Data for Automated Routing and Rating with GIS," BRASS and AASHTO Opis/Virtis Users Group Meeting, Annual Meeting, Nashville, TN, July 1999.
65. Goodrich, B.L., Cole, A.P., and Puckett, J.A., "BRASS-Culvert Administrative Update and Demonstration," BRASS and AASHTO Opis/Virtis Users Group Meeting, Annual Meeting, Nashville, TN, July 1999.
66. Puckett, J.A. and Jablin, Mark, "Overview of NCHRP 12-50, Software Validation," BRASS and AASHTO Opis/Virtis Users Group Meeting, Annual Meeting, Nashville, TN, July 1999.
67. Puckett, J.A. and Hamilton, T.R., "Traffic Signal Pole – Work in Progress," AASHTO Subcommittee on Bridges, Annual Meeting, San Diego, CA, May 1999.
68. Puckett, J.A. and Goodrich, B.L., "Introduction to the Capabilities of BRASS LRFD," Software For AASHTO LRFD Bridge Specifications, International Bridge Conference, Pittsburgh, PA, June 1998.
69. Puckett, J.A., "Overview of NCHRP 12-50, Development of a Process for Software Testing", International Highway Engineering Exchange Program, Annual Meeting, Colorado Springs, CO, Sept. 1998.
70. Puckett, J.A., "Overview of AASHTO's New Load Rating and Design Systems," International Highway Engineering Exchange Program, Annual Meeting, Colorado Springs, CO, Sept. 1998.
71. Goodrich, B.L. and Puckett, J.A., "AASHTO Funded Enhancements to BRASS," BRASS User's Group Meeting, Kansas City, MO, July 1998.
72. Puckett, J.A., "Update on BRASS-Pier LRFD, BRASS User's Group Annual Meeting, Kansas City, KC, July 1998.
73. Puckett, J.A. and Goodrich, B.L., "Update on BRASS Culvert with Emphasis on the GUI," BRASS User's Group Annual Meeting, Kansas City, KC, July 1998.
74. Thompson, P.D., Duray, J.A., and Puckett, J.A., "The Application Of Object Technology In AASHTO's New Load Rating And Design System," First Conference on Information Technologies in Decision Making in Civil Engineering, Montreal, Canada, Oct. 1998.
75. Goodrich, B.L. and Puckett, J.A., "Overview of a Simplified Method for Permit Vehicles with Non-Standard Gage Widths," BRASS User's Group Annual Meeting, Kansas City, MO, July 1998.
76. Puckett, J.A., "Demonstration of Lotus Notes for Collaborative Development," Partners Small Seminar Series, Sponsored by UW College of Engineering, Center for Teaching Excellence, PeopleSoft, UW Partners Program, April, 1998.
77. Puckett, J.A. and Goodrich, B.L., "BRASS-Culvert Update," AASHTO Subcommittee on Bridges, Annual Meeting, Nashville, TN, May 1998.
78. Puckett, J.A. and Goodrich, B.L., "Live Load Distribution for Permit Vehicles with Non-Standard Axle Configurations Using AASHTO LRFD Distribution Factors," AASHTO Subcommittee on Bridges, Annual Meeting, Nashville, TN, May 1998.
79. Puckett, J.A. and Hamilton, T.R., "Traffic Signal Pole – Work in Progress," AASHTO Subcommittee on Bridges, Annual Meeting, Nashville, TN, May 1998.

80. Puckett, J.A. and Hamilton, T.R., "Damping of Traffic Signal Poles," AASHTO Subcommittee on Bridges, Annual Meeting, Nashville, TN, May 1998.
81. Goodrich, B.L., and Puckett, J.A., LRFD Software Panel, Kansas DOT Bridge Engineering Seminar, Kansas State University, Manhattan, KS, Oct. 1997.
82. Puckett, J.A. and Duray, J., "Overview of AASHTO Virtis," BRASS User's Group Meeting, Albany, NY, July 1997.
83. Puckett, J.A., "Future Directions of BRASS," BRASS User's Group Meeting, Albany, NY, July 1997.
84. Goodrich, B.L. and Puckett, J.A., "BRASS LRFD Example Problems," BRASS User's Group Meeting, Albany, NY, July 1997.
85. Puckett, J.A., and Goodrich, B.L., "Update on BRASS-LRFD", BRASS User's Group Meeting, Albany, NY, July 1997.
86. Puckett, J.A., Bramel, B.K., Dolan, C.W., and Ksaibati, K., "Asphalt Plug Joints – Design Guidelines and Specification Development," Western Bridge Engineers' Seminar, Coeur d' Alene, ID, Oct. 1997.
87. Puckett, J.A. and Goodrich, B.L., BRASS-LRFD Capabilities and Future Linkages, Western Bridge Engineers' Seminar, Coeur d' Alene, ID, Oct. 1997.
88. Puckett, J.A., LRFD Software Panel, Steel Bridge Forum, American Iron and Steel Institute, National Steel Bridge Alliance, Springfield, IL. (This was an invited presentation and I was ill during this time. I sent paper presentation and an LRFD example)), Oct. 1997.
89. Puckett, J.A., and Goodrich, B.L., "Update on BRASS-LRFD", AASHTO Committee on Bridges, Technical Committee Meeting, T19, Jackson Hole, WY, June 1997.
90. Hamilton, T.R., and Puckett, J.A., "Signal Pole Research", AASHTO Committee on Bridges, Technical Committee Meeting, T, Jackson Hole, WY, June 1997.
91. Schmidt, R.J. and Puckett, J.A., "A Look Back at Research Needs in Wood Engineering," Research Need in Wood Engineering, NSF/ASCE, held at ASCE Structures Congress, Portland, OR, April, 1997.
92. Puckett, J.A., Thompson, P.D, Duray, J., and Campbell, J., "Functional Design Memo – Analysis Engine for AASHTO BridgeWare," presentation to the AASHTO BridgeWare Task Force, Nov. 1996.
93. Puckett, J.A. and Hamann, J., "A Model for Using Productivity Software in the Engineering Classroom: MAP VARS & DOC," Frontier In Education Conference, Salt Lake City, Oct. 1996.
94. Fogstad, C. T. Galloway, C. Dolan, and J. Puckett, "Initial Tests of Kevlar Prestressed Timber Beams,"
95. Proceedings, National Conference on Wood Transportation Structures, Madison, WS, Oct. 1996.
96. Thomas, R.A. and Puckett, J.A., "Analysis, Design, Rating and Drafting of Wood Bridge Superstructures,"
97. Proceedings, National Conference on Wood Transportation Structures, Madison, WS, Oct. 1996.
98. Puckett, J.A., "Overview of BRASS-Girder," BRASS and BARS Users Group, Boise, ID, July 1996.
99. Puckett, J.A., "New Program for Design and Rating of Timber Bridges," BRASS and BARS Users Group, Boise, ID, July 1996.
100. Puckett, J.A., Campbell, J.J., Thompson, P.D, Duray, J., "Overview of AASHTO Virtis/Opis," BRASS and BARS Users Group, Boise, ID, July 1996.

101. Puckett, J.A., "Virtis Database -- Technical Overview," International Highway Engineering Exchange Program, Annual Conference, Kansas City, MO, Sept. 1996. (accepted)
102. Puckett, J.A., "Overview of AASHTO Virtis," Technical Advisory Group for Data Structures, AASHTO Virtis Project, Chicago, IL, June 1996.
103. Joint paper Research in Progress, NSF, Buffalo, NY, June 1996.
104. Puckett, J.A. and Dolan, C.W., "Fiber Reinforced Timber Beams," AASHTO Subcommittee on Bridges Annual Meeting, (Timber Committee) Philadelphia, PA, May 1996.
105. Puckett, J.A. and Randy Thomas, "Madero -- A New Program for Wood Bridge Analysis, Design, and Rating," AASHTO Subcommittee on Bridges Annual Meeting, (Software Committee) Philadelphia, PA, May 1996.
106. Puckett, J.A. and Randy Thomas, "Madero -- A New Program for Wood Bridge Analysis, Design, and Rating," AASHTO Subcommittee on Bridges Annual Meeting, (Timber Committee) Philadelphia, PA, May 1996.
107. Puckett, J.A., "Update on BRASS-LRFD," AASHTO Subcommittee on Bridges Annual Meeting, Philadelphia, PA, May 1996.
108. Puckett, J.A., Dolan, C.W., and Bramel, B., "Asphalt Plug Joint Research," AASHTO Subcommittee on Bridges Annual Meeting, Philadelphia, PA, May 1996.
109. Puckett, J.A., "A Model for the Use of Productivity Software (MAP VARS & DOC)", ASEE Regional Conference, Laramie, WY, 1996.
110. Puckett, J.A., "AASHTO BDS Critical Review -- Technical Review," AASHTO BDS Task Force, Kansas City, MO, Dec. 1995.
111. Puckett, J.A., "AASHTO Virtis -- An Overview," Westerner Bridge Engineers Seminar, Sacramento, CA, Oct. 1995.
112. Puckett, J.A., "Reengineering Legacy Software," International Highway Engineering Exchange Program, Portland, OR, Sept. 1995.
113. Puckett, J.A., "Demonstration of AASHTO Virtis Prototype", AASHTO BDS User's Group, Williamsburg, VA, Sept. 1995.
114. Puckett, J.A., "Demonstration of AASHTO Virtis Prototype," AASHTO BARS User's Group, Williamsburg, VA, Aug. 1995.
115. Puckett, J.A., "AASHTO Virtis -- Overview for Maintenance Engineers," AASHTO Annual Meeting for Subcommittee on Maintenance, Branson, MO, July 1995.
116. Puckett, J.A., "Update on BRASS-LRFD", BRASS User's Group, Denver, CO, July 1995.
117. Glandt, D.A., and Puckett, J.A., "Update on BRASS Family of Programs," International Highway Engineering Exchange Program, Regional meeting, Cheyenne, WY, July 1995.
118. Puckett, J.A., "Reengineering Legacy Software," International Highway Engineering Exchange Program, Regional meeting, Cheyenne, WY, July 1995.
119. Puckett, J.A., "Update on BRASS-LRFD", AASHTO Annual Meeting of the Bridge Subcommittee, Portland, OR, May 1995.

120. Puckett, J.A., "AASHTO Virtis -- An Overview", AASHTO Annual Meeting of the Bridge Subcommittee, Portland, OR, May 1995.
121. Puckett, J.A., Thomas, R. and Ritter, M., "Software for the Design of Timber Bridges," AASHTO Annual Meeting of the Bridge Subcommittee, Portland, OR, May 1995.
122. Merchant, R., C.W. Dolan, and Puckett, J.A., "Evaluation of Elastomeric Bridge Joint Sealants", ACI Conference, San Francisco, March 1994.
123. Puckett, J.A., "Current Research in the Use of Hypermedia for Structural Engineering," Special Presentation to Nevada DOT, Oct. 1993.
124. Puckett, J.A., "Current Research in the Use of Hypermedia for Structural Engineering," Special Presentation to Hawaii DOT, Jan. 1993.
125. Puckett, J.A., "Current Research in the Use of Hypermedia for Structural Engineering," Special Presentation to Arizona DOT, Oct. 1993.
126. Puckett, J.A., "Current Research in the Use of Hypermedia for Structural Engineering", Special Presentation to Oklahoma DOT, Oct. 1993.
127. Puckett, J.A., "Current Research in the Use of Hypermedia for Structural Engineering", Special Presentation to Connecticut DOT, July 1993.
128. Puckett, J.A., "Specialized Courseware in Structural Engineering", Session Organizer and Moderator, ASCE Structures Congress, Atlanta, GA, April 1994.
129. Puckett, J.A., "Issues in Structural Engineering Education", Session Organizer and Moderator, ASCE Structures Congress, Atlanta, GA, April 1994.
130. Puckett, J.A., "Linking Hypermedia with AASHTO Applications," AASHTO Joint Development Meeting, Tucson, AZ, May. 1994.
131. Puckett, J.A., "Use of Hypermedia for the AASHTO Bridge Specification," Highway Engineering Exchange Program, San Antonio, TX, Sept. 1993.
132. Puckett, J.A., "Metrification and Implementation of LRFD in BRASS," AASHTO Subcommittee on Bridges, Denver CO, May 1993.
133. Puckett, J.A. and Finch, T.R., "Transverse Load Distribution Factors for Permit Vehicles," Third Workshop on Bridge Engineering Research in Progress, San Diego, CA, Nov. 1992.
134. Smith, S.S., Allen, M.B., Puckett, J.A., and Edgar, T.V., "Three Dimensional Model of Multi-Well Field Using Finite Layer Methods", Proceedings Hydrology Day Colorado State University, Ft. Collins, CO, April 1991.
135. Gutkowski, R. M., Chen, C. J. and Puckett, J. A., "Developments in the Use of Cubic B- Splines in the Compound Strip Methods," Proceedings, Mechanics Computing in the 1990's and Beyond, Columbus, OH, May 1991.
136. Puckett, J.A., Clancy, C., and Pope, D., "Method for Linking Computer Aided Design and Drafting," Proceedings, NSF Workshop on Bridge Engineering Research in Progress, Reno, NV, October 1990.
137. Puckett, J.A., "An Automated Link for Computer Aided Drafting," Highway Exchange Program International Conference, Rapid City, SD, Sept. 1990

138. Puckett, J.A., Clancy, C., and Pope, D., "An Effective Method for Linking Computer Aided Engineering Procedures with Computer Drafting," Proceedings, Third Bridge Engineering Conference, Denver, CO, May 1991.
139. Puckett, J.A., Lieber, S.R., and Glandt, D.A., "An Automated Procedure for the Regulation of Overweight Vehicles," Proceedings, International Conference on Short and Medium Span Bridges, Toronto, Canada, August 1990.
140. Puckett, J.A., "Relationship Between Structural Analysis and Design Curricula - A Case Study," Proceedings, ASCE Structures Congress, Baltimore, MD, April 1990.
141. Wilson, E.M., and Puckett, J.A., "Technology Transfer in the 21st Century," National Forum on Education and Continuing Professional Development for the Civil Engineer, Proceedings, Las Vegas, NV, April 1990.
142. Puckett, J.A., "A Comparison of the Design of Bridge Decks by the AASHTO Design Code and the Ontario Bridge Design Code," Western Bridge Engineers Seminar, Coeur d'Alene, ID, October 1989.
143. Puckett, J.A., "A Comparison of the Design of Bridge Decks by the AASHTO Design Code and the Ontario Bridge Design Code," AASHTO Bridge Committee, San Antonio, TX, May 1989.
144. Puckett, J.A., and Collins, B. P., "Service Level Reinforcement Stresses -- Two Full Scale Bridge Deck Tests," *Proceedings of Internal Bridge Conference*, Pittsburgh, PA, June 1989.
145. Puckett, J.A., "Comparison of the Ontario and AASHTO Deck Designs," *Proceedings, Bridge Research in Progress, NSF*, Iowa State University, Des Moines, IA, Sept., 1988.
146. Edgar, T.V., Puckett, J.A., and D'Spain, R.B., "Lateral Load Reduction on Bridge Abutment Walls," *Proceedings, Bridge Research in Progress, NSF*, Iowa State University, Des Moines, IA, Sept. 1988.
147. Puckett, J.A., "An Automated Procedure for the Regulation of Overweight Vehicles," *Proceedings, Bridge Research in Progress, NSF*, Iowa State University, Des Moines, IA, Sept. 1988.
148. Puckett, J.A., and Guenther, P.W., "Model for the Integration of Design and Drafting Software," *Proceedings, Fifth Annual International Bridge Conference*, Pittsburgh, PA, June 1988.
149. Edgar, T.V., D'Spain, R.B., and Puckett, J.A., "Lateral Load Reduction Using Geotextiles," Earth Modification Using Geosynthetics, Wyoming Association of Consulting Engineers and Surveyors, Cody, WY, May 1988.
150. Puckett, J.A., and Schmidt, R.J., "The 'PS' Finite Element Method in a Parallel Computing Environment," *Proceedings, ASCE Engineering Mechanics Division Specialty Conference*, Blacksburg, VA, May 1988.
151. Puckett, J.A., and Schmidt, R.J., "The Finite Strip Method in a Parallel Computing Environment," *Proceedings, ASCE National Conference*, Nashville, TN, May 1988.
152. Ewing, E.E., Espendal, M.S., Puckett, J.A., and Schmidt, R.J., "Simulation Technique for Multiphase and Multicomponent Flows," *Proceedings, Specialty Workshop on Topics in Computational Mechanics*, Dallas, TX, April 1987.
153. Puckett, J.A., and Schmidt, R.J., "Semi-Analytical Shape Function in a Parallel Computing Environment," *Proceedings, Third SIAM Conference on Parallel Processing for Computing*, Los Angeles, CA, Dec. 1987.
154. Puckett, J.A., and Schmidt, R.J., "The P-S Shape Function in a Parallel Computing Environment," *Proceedings, Third SIAM Conference on Parallel Processing for Computing*, Los Angeles, CA, Dec. 1987.

155. Puckett, J.A., and Collins, B.P., "Data Acquisition of Reinforcement Strains in Bridge Decks," *Proceedings, National Conference on Microcomputers in Civil Engineering*, Orlando, FL, Nov. 1987.
156. Puckett, J.A., and Edgar, T.V., "Behavior of Geotextile Approach Fills," *Proceedings Sixth ASCE-EMD Specialty Conference*, Buffalo, NY, May 1987.
157. Puckett, J.A., and Slattery, J.E., "The Finite Strip Method in Groundwater Hydrology," *Proceedings Sixth ASCE-EMD Specialty Conference*, Buffalo, NY, May 1987.
158. Puckett, J.A., Wiseman, D.L., and Chong, K.P., "Recent Developments in the Finite Strip Methods," ASCE National Conference, *Proceedings of the Structures Congress*, Orlando, FL, August 1987.
159. Kladianos, J.R., Chong, K.P., and Puckett, J.A., "Stability Analysis of Axially Loaded Members by Finite Strip Method," *Proceedings Sixth ASCE-EMD Specialty Conference*, Buffalo, NY, May 1987.
160. Puckett, J.A., Wiseman, D.L., and Chong, K.P., "Compound Strip Method for the Buckling Analysis of Continuous Plates," *Proceedings Sixth ASCE-EMD Specialty Conference*, Buffalo, NY, May 1987.
161. Puckett, J.A., Edgar, T.V., and Reasch, L.R., "A General Menu-Driven Input System," *Proceedings Third Conference on Microcomputers in Civil Engineering*, Orlando, FL, Nov. 1985.
162. Puckett, J.A., and Basham, K.D., "Transfer Matrix Method for the Analysis of Bridge Structures," *Proceedings Third Conference on Microcomputers in Civil Engineering*, Orlando, FL, Nov. 1985.
163. Puckett, J.A., and Wilson, C.H., "Microcomputer Version of Bridge Rating and Analysis of Structural Systems," *Proceedings International Bridge Conference*, Pittsburgh, PA, June 1985.
164. Puckett, J.A., and Edgar, T.V., "Making the 'Black Box' a Light Shade of Gray," *Proceedings, ASEE National Conference*, Atlanta, GA, 1985.
165. Puckett, J.A., Reasch, L.R., and Edgar, T.V., "An Interactive Shell for Batch Processing," *Proceedings Ninth Conference on Electronic Computation, ASCE*, Birmingham, AL, Feb. 1985.
166. Puckett, J.A., "Microcomputer Version of Bridge Rating and Analysis of Structural Systems (BRASS-PC)," National Research Council, NCHRP Project, 20-5 Mtg., Topic 16- 04, Nov. 1984.
167. Puckett, J.A., and Gutkowski, R.M., "Compound Strip Method for the Analysis of Continuous Elastic Plates," *Proceedings Fifth ASCE-EMD Specialty Conference*, Laramie, WY, Aug. 1984.
168. Puckett, J.A., and Gutkowski, R.M., "Application of the Compound Strip Method for the Analysis of Multispan Slab-Girder Bridges," *Proceedings International Association for Bridge and Structural Engineering*, Vancouver, B.C., Sept. 1984.
169. Puckett, J.A., "Bridge Rating and Analysis of Structural Systems - Recent Enhancement of BRASS," *Proceedings International Bridge Conference*, Pittsburgh, PA, June 1984.
170. Puckett, J.A., and Edgar, T.V., "Design of Educational Software," *Proceedings Second National Conference on Microcomputers in Civil Engineering*, Orlando, FL, 1984.
171. Puckett, J.A., "Compound Strip Method for the Analysis of Continuous Elastic Plates," Doctoral Thesis, Colorado State University, 1983.
172. Puckett, J.A., "Flexural Testing of Wood Transmission Poles," Structural Research Report No. 19, Colorado State University, 1983.

173. Puckett, J.A., "Flexural Testing of Wood Transmission Poles," Master's Thesis, Colorado State University, 1980.
174. Puckett, J.A., "Testing of Large Timber Poles," presented at the Annual Meeting of the Society of Experimental Stress Analysis, San Francisco, 1979.
175. Puckett, J.A., Government Handbook, "Facilities Available to Missouri Industry for Hazardous Waste Disposal," State of Missouri, 1977.

Invited Presentations (Misc):

Stopped recording in 2003.

Puckett, J.A., AASHTO Opis Short Course, AASHTO Virtis/Opis/BRASS Users Group Meeting, Orange Beach, AL, August 2003.

Goodrich, B.L., Puckett, J.A., and Jablin, M.C, *LFD and LRFR Methods for Bridges*, AASHTO Virtis/Opis/BRASS Users Group Meeting, Orange Beach, AL, August 2003.

Puckett, J.A. and Peavy, M.D., *Update on Opis' Finite Element Engine*, AASHTO Virtis/Opis/BRASS Users Group Meeting, Orange Beach, AL, August 2003.

Goodrich, B.L., Puckett, J.A., and Jablin, M.C, Comparisons of LFD and LRFR methods for Bridges, AASHTO Subcommittee on Bridges and Structures, T-18, Albuquerque, NM, June 2003.

Goodrich, B.L., Puckett, J.A., and Jablin, M.C, *Comparisons of LFD and LRFR Methods for Bridges*, AASHTO Subcommittee on Bridges and Structures, T-18, Albuquerque, NM, June 2003.

Goodrich, B.L., Puckett, J.A., and Jablin, M.C, *Implementation of AASHTO LRFD 6.10 Revisions – Commentary Regarding Adoption*, AASHTO Subcommittee on Bridges and Structures, Main Session, Albuquerque, NM, June 2003.

Goodrich, B.L., Puckett, J.A., and Jablin, M.C, *Implementation of AASHTO LRFD 6.10 Revisions*, AASHTO Subcommittee on Bridges and Structures, T-14, Albuquerque, NM, June 2003.

Puckett, J.A. and Mlynarski, Bridge Software Validation Update, NCHRP 12-50, AASHTO Subcommittee on Bridges and Structures, T-19, Albuquerque, NM, June 2003.

Goodrich, B.L. and Puckett, J.A., “Comparison of LFR and LRFR Bridges,” Invited presentation to the University of Illinois Bridge Engineering Workshop, April 2003.

Puckett, J.A. and Mlynarski, M. “Bridge Software Validation Guidelines – Summary and Findings of NCHRP 12-50,” AASHTO Subcommittee on Bridges, Annual Meeting, New Jersey, May 2002.

Puckett, J.A., “Load Testing Requirement Outlined in the AASHTO LRFR Specification”, Bridge Load Testing and Rating Workshop, Kansas City, Mo. March, 2001.

Puckett, J.A., “New Technologies in Civil Engineering”, Wyoming Engineering Society, Casper, WY, February 2001.

Puckett, J.A., “Development of a Process for Software Testing,” Bridge Design Workshop No. 6, Kansas State University, Manhattan, KS, October 1999.

Puckett, J.A., “Modified Compression Field Theory with Examples,” Bridge Design Workshop No. 6, Kansas State University, Manhattan, KS, October 1999.

Puckett, J.A., “Overview of NCHRP 12-50, Development of a Process for Software Testing”, International Highway Engineering Exchange Program, Annual Meeting, Colorado Springs, CO, Sept. 1998.

Puckett, J.A., “Overview of AASHTO’s New Load Rating and Design Systems”, International Highway Engineering Exchange Program, Annual Meeting, Colorado Springs, CO, Sept. 1998.

Puckett, J.A. and Goodrich, B.L., “Overview of Modification for BRASS-Culvert,” AASHTO Subcommittee on Bridges, Annual Meeting, Nashville, TN, May 1998.

Puckett, J.A. and Goodrich, B.L., "Live Load Distribution for Permit Vehicles with Non-Standard Axle Configurations Using AASHTO LRFD Distribution Factors," AASHTO Subcommittee on Bridges, Annual Meeting, Nashville, TN, May 1998.

Puckett, J.A. and Hamilton, T.R., "Traffic Signal Pole – Work in Progress," AASHTO Subcommittee on Bridges, Annual Meeting, Nashville, TN, May 1998.

Puckett, J.A. and Hamilton, T.R., "Damping of Traffic Signal Poles," AASHTO Subcommittee on Bridges, Annual Meeting, Nashville, TN, May 1998.

Puckett, J.A., Bramel, Brian, and Dolan, C.W., "Asphalt Plug Joint Summary," AASHTO Subcommittee on Bridges, Annual Meeting, Nashville, TN, May 1998.

Goodrich, B.L., and Puckett, J.A., LRFD Software Panel, Kansas DOT Bridge Engineering Seminar, Kansas State University, Manhattan, KS, Oct. 1997.

Puckett, J.A. and Duray, J., "Overview of AASHTO Virtis," BRASS User's Group Meeting, Albany, NY, July 1997.

Puckett, J.A., "Future Directions of BRASS," BRASS User's Group Meeting, Albany, NY, July 1997.

Goodrich, B.L. and Puckett, J.A., "BRASS LRFD Example Problems," BRASS User's Group Meeting, Albany, NY, July 1997.

Puckett, J.A., and Goodrich, B.L., "Update on BRASS-LRFD", BRASS User's Group Meeting, Albany, NY, July 1997.

Puckett, J.A., LRFD Software Panel, Steel Bridge Forum, American Iron and Steel Institute, National Steel Bridge Alliance, Springfield, IL. (this was an invited presentation and I was ill during this time. I sent paper presentation and an LRFD example)), Oct. 1997.

Puckett, J.A., and Goodrich, B.L., "Update on BRASS-LRFD", AASHTO Committee on Bridges, Technical Committee Meeting, T19, Jackson Hole, WY, June 1997.

Hamilton, T.R., and Puckett, J.A., "Signal Pole Research", AASHTO Committee on Bridges, Technical Committee Meeting, T, Jackson Hole, WY, June 1997.

Puckett, J.A. and Dolan, C.W., "Fiber Reinforced Timber Beams," AASHTO Subcommittee on Bridges Annual Meeting, (Timber Committee) Philadelphia, PA, May 1996.

Puckett, J.A. and Randy Thomas, "Madero -- A New Program for Wood Bridge Analysis, Design, and Rating," AASHTO Subcommittee on Bridges Annual Meeting, (Software Committee) Philadelphia, PA, May 1996.

Puckett, J.A. and Randy Thomas, "Madero -- A New Program for Wood Bridge Analysis, Design, and Rating," AASHTO Subcommittee on Bridges Annual Meeting, (Timber Committee) Philadelphia, PA, May 1996.

Puckett, J.A., "Update on BRASS-LRFD," AASHTO Subcommittee on Bridges Annual Meeting, Philadelphia, PA, May 1996.

Puckett, J.A., Dolan, C.W., and Bramel, B., "Asphaltic Plug Joint Research," AASHTO Subcommittee on Bridges Annual Meeting, Philadelphia, PA, May 1996.

Puckett, J.A., "AASHTO BDS Critical Review -- Technical Review", AASHTO BDS Task Force, Kansas City, MO, Dec. 1995.

Puckett, J.A., "AASHTO Virtis -- An Overview", Westerner Bridge Engineers Seminar, Sacramento, CA, Oct. 1995.

Puckett, J.A., "Demonstration of AASHTO Virtis Prototype", AASHTO BDS User's Group, Williamsburg, VA, Sept. 1995.

Puckett, J.A., "Demonstration of AASHTO Virtis Prototype", AASHTO BARS User's Group, Williamsburg, VA, Aug. 1995.

Puckett, J.A., "AASHTO VIRTIS", AASHTO Subcommittee on Maintenance, Branson, MO, July 1995.

Puckett, J.A., "Reengineering Legacy Software", Engineering Highway Exchange Program, Cheyenne, WY, June 1995.

Puckett, J.A., "Update on BRASS LRFD-SI", AASHTO Subcommittee on Bridges Portland, OR, May 1995.

Puckett, J.A., "AASHTO VIRTIS", AASHTO Subcommittee on Bridges Portland, OR, May 1995.

Puckett, J.A., "Analysis, Design, and Rating of Wood Bridges", AASHTO Subcommittee on Bridges Portland, OR, May 1995.

Puckett, J.A., "Applications of Visual Bridge," AASHTO BDS Task Force Committee, Burlington, VT, Oct. 1994.

Puckett, J.A., "Reengineering Software", Colorado Department of Transportation Highway Engineering Exchange Program, Denver, CO, Oct. 1995.

Puckett, J.A., "Reengineering Legacy Software", International Highway Engineering Exchange Program, New Orleans, LA, Oct. 1995.

Puckett, J.A., "Linking Hypermedia with AASHTO Applications," AASHTO Joint Development Committee Meeting, Tucson, AZ, Jan. 1994.

Puckett, J.A., "Use of Hypermedia for the AASHTO Bridge Specification," Highway Engineering Exchange Program, San Antonio, TX, Sept. 1993.

Puckett, J.A., "Metrification and Implementation of LRFD in BRASS," AASHTO Subcommittee on Bridges, Denver CO, May 1993.

Puckett, J.A., "Enhancement of Engineering Software," Mountain Plains Consortium Annual Conference, Salt Lake City, UT, Nov. 1990.

Puckett, J.A., "An Automated Link for Computer Aided Drafting," Highway Exchange Program International Conference, Rapid City, SD, Sept. 1990

Puckett, J.A., "Development Environments for Standardized User Interfaces," AASHTO Bridge Design System Task Force, Sacramento, CA, Dec. 1989.

Puckett, J.A., "Development Environments for Standardized User Interfaces," AASHTO Administration Subcommittee on Information Systems Annual Meeting, Rapid City, SD, May 1989.

Puckett, J.A., "A Comparison of the Design of Bridge Decks by the AASHTO Design Code and the Ontario Bridge Design Code," Western Bridge Engineers Seminar, Coeur d'Alene, ID, Oct. 1989.

Puckett, J.A., "A Comparison of the Design of Bridge Decks by the AASHTO Design Code and the Ontario Bridge Design Code," AASHTO Bridge Committee, San Antonio, TX, May 1989.

Puckett, J.A., "A Proposed Modification to the AASHTO Bridge Deck Design Procedures," AASHTO Subcommittee on Loads and Load Distribution, San Antonio, TX, May 1989.

Puckett, J.A., "Lightly Reinforced Bridge Deck Design Procedures and the AASHTO Specification," Western Bridge Engineer Seminar, Coeur d'Alene, ID, Oct. 1989.

Puckett, J.A., "Model for the Integration of Design and Drafting Software," Highway Engineering Exchange Program, Western Regional Conference, Jackson, WY, July 1988.

Puckett, J.A., "Rating of Timber Bridges," Workshop on Timber Bridges, FHWA, Colorado State University, Ft. Collins, CO, Aug. 1987.

Puckett, J.A., "Microcomputer Version of BRASS," Northwest Bridge Engineers Seminar, Portland, OR, Oct. 1985.

Funded Grants:

1. Wyoming Department of Transportation, \$12K, October 2009. Retrofits to Break Vortex Shedding in High-Mast Illuminaires (extending for sponsored under Smith Professorship)
2. Major Equipment Grant Match, Puma Steel, Cheyenne, \$27.5K, 2009
3. Major Equipment Grant, University of Wyoming, \$25K, 2009.
4. Use of Wind Power Maps to Establish Fatigue Design Criteria for Traffic Signal and High-Mast Structures, Mountain Plains Consortium, \$49K. (with Michael G. Barker), October 2009.
5. Economic And Serviceable Seismic Bolted Connections, American Institute for Steel Construction, \$50K, October 2009.
6. *Integrated Bridge Project Delivery and Management*, FHWA, subcontract to Arora and Associates, ~\$25K, December 2006.
7. Use of Wind Power Maps to Establish Fatigue Design Criteria for Traffic Signal and High-Mast Structures, Mountain Plains Consortium, \$49K. (with Michael G. Barker).
8. *Incorporation of research findings into AASHTO's Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals*, (with Michael G. Barker), National Academy of Sciences, National Cooperative Highway Research Program NCHRP Project 20-07/Task 209, \$50K. 2006.
9. *NCHRP 12-62, Simplified Live Load Distribution Factor Equations*, Phase I, Jay Puckett and Dennis Mertz PIs, prime contractor BridgeTech, Inc.
10. *NCHRP 12-62, Simplified Live Load Distribution Factor Equations*, Phase II, Jay Puckett and Dennis Mertz PIs, prime contractor BridgeTech, Inc.
- 11.
12. *NCHRP 12-50, Bridge Software Validation Guidelines and Examples, Phase II*, Jay Puckett and Mark Mlynarski PIs, Michael Baker, Jr, Inc I prime contractor.
13. *NCHRP 12-50, Bridge Software Validation Guidelines and Examples, Phase I*, Jay Puckett and Mark Mlynarski PIs, Michael Baker, Jr, Inc. was prime contractor.

14. *Demonstration and Performance Assessment Of A Net Zero Energy School Building In Wyoming*, Wyoming Energy Commission, Wyoming Business Council, April 2005, \$179,211.
15. *Fatigue of Traffic Signal Poles – Phase II*, (with Robert Erikson), WYDOT, \$142K. + ~\$50K specimen donations.
16. *Review of Information Technology in Bridge Management*, International Technology Scanning Program, USDOT, FHWA , Office of International Programs, \$15,000.
17. "Madero – Phase III", USDA Forest Products Laboratory, June 2000, \$46147.36 (verbally approved, Feb 2002, budget to be revised).
18. "Increase in Damping of Traffic Signal Structures" (with Trey Hamilton), WYDOT (Continuation, \$43,400, MOU Sept 1999.
19. "University of Minnesota Fatigue-Resistant Design of Cantilevered Signal, Sign, and Light Supports" (with Trey Hamilton), \$20,000, June 1998.
20. "NDSU TEL-8 Educational Delivery Enhancement + Demonstration," North Dakota State University, 1997, \$29,997, (with E.M. Wilson)
21. "NDSU TEL-8 Educational Delivery Enhancement + Demonstration," North Dakota State University, 1997, \$17,726, (with E.M. Wilson)
22. "Analysis, Design, Rating, and Drafting of Wood Bridge Superstructures – Phase II)", Forests Products Laboratory, United States Department of Agriculture, Madison, WI, \$44,959, June 1997. (overhead not included).
23. "Evaluation of Signal Structures," Wyoming Department of Transportation, \$156,000 (with H.R. Hamilton), Sept. 1997.
24. "Increasing Damping of Signal Structures," Wyoming Department of Transportation, \$56,000 (with H.R. Hamilton), Jan. 1997.
25. "Major Equipment Grant," UW Research Office, \$25,000 (with C.W. Dolan, H.R. Hamilton, R.J. Schmidt), 1997.
26. "Investigation of Elastomeric Bridge Joints," Wyoming Department of Transportation, approximately \$40,000. (with C.W. Dolan)
27. "Use of Fiber Reinforced Composites in Wood Bridges," Forests Products Laboratory, United States Department of Agriculture, Madison, WI, \$40,000 (no overhead included). (with C.W. Dolan)
28. "Analysis, Design, Rating, and Drafting of Wood Bridge Superstructures, Forests Products Laboratory, United States Department of Agriculture, Madison, WI, \$68,448 (overhead not included).
29. "Investigation of Bridge Joint Behavior and Design Recommendations", Wyoming Department of Transportation, \$74242. (With C.W. Dolan)
30. "Temperature Effects on Skewed and Slab Girder Bridges," Wyoming Department of Transportation, \$68,784.
31. "Testing and Monitoring a Fabric Reinforced Earth Structure," Wyoming State Highway Department, with T. V. Edgar, Summer 1992, contract extension,

32. "Management of Bridge Inventories in a Rural Environment," Jan. 1992, Wyoming Department of Transportation, \$22,000.
33. "Management of Bridge Inventories in a Rural Environment," Jan. 1991, U.S.D.O.T., \$35,200.
34. "Management of Bridge Inventories in a Rural Environment," Jan. 1991, Wyoming Highway Department, \$35,200.
35. College of Engineering Faculty Development Grant, April 1990, \$1,100.
36. Contract Extension, "Enhancement of Transportation Engineering Software," Wyoming Highway Department, Dec. 1989, \$49,300.
37. Contract Extension, "Enhancement of Transportation Engineering Software," U.S.D.O.T., Dec. 1989, \$37,400.
38. "Workshop on Computer Aided Design," National Science Foundation, June 1989, \$10,000.
39. "Evaluation of Bridge Deck Utilizing Ontario Bridge Deck Design Methods - Technology Transfer of Research Results," May 1989, \$3,800.
40. "Enhancement of Transportation Engineering Software," Wyoming Highway Department, Dec. 1989, \$37,500.
41. "Enhancement of Transportation Engineering Software," U.S.D.O.T., Dec. 1988, \$47,400.
42. "An Automated Procedure for the Regulation of Overweight Vehicles on Wyoming's Highways," Wyoming Highway Department, Jan. 1987, \$48,000.
43. "Acquisition of Major Equipment for Parallel Computing," with Ewing, R. E., Allen, M. B., and Schmidt, R. J., Summer 1986, \$100,000.
44. "Mainframe and Workstation Software Maintenance, Enhancement and Interaction," Wyoming Highway Department - approximately \$50,000.
45. "Application of Emerging Computer Architecture in Computational Mathematics and Mechanics," National Science Foundation, with Allen, M. B., Isaacson, E. L., and Schmidt, R. J., July 1986, \$763,000.
46. "College of Engineering Faculty Development Grant," April 1986, \$1,500.
47. "Bridge Rating and Analysis of Structural Systems," research funded by the Federal Highway Administration through the Wyoming State Highway Department, Aug. 1983, \$36,000.
48. "Structural Analysis and Rating of Bridges with the IBM Personal Computer," funded by the Wyoming State Highway Department, October 1984, \$60,000.
49. Contract Extension, "Structural Analysis and Rating of Bridges with the IBM Personal Computer," funded by the Wyoming State Highway Department, Oct. 1984, \$20,000.
50. "Testing and Monitoring a Prototype Slab-Girder Bridge," Wyoming State Highway Department, Spring 1985, \$58,000.
51. "Testing and Monitoring a Fabric Reinforced Earth Structure," Wyoming State Highway Department, with T. V. Edgar, Spring 1985, \$47,000.

Pending Grants

NIST -- Innovative Technology Program, A Sensor Based Bridge Corrosion and Asset Preservation System, PI and subcontractor to NDSU, UW's portion~1.9M.

Continuing Education -- Instructor:

1. LRFD Bridge Design Short Course, PCA, Albuquerque, New Mexico, October 2005. (with Shri Bride)
2. *Advanced Topics in AASHTO Opus – Short Course*, National Short Course in Conjunction with the Annual Users' Group Meeting, Orange Beach, AL, August 2003.
3. *Advanced Topics in AASHTO Opus – Short Course*, National Short Course in Conjunction with the Annual Users' Group Meeting, Lincoln, NB, August 2002.
4. "Advanced Topic in AASHTO Opus and Virtis", National Short Course in Conjunction with the Annual Users' Group Meeting, Albuquerque, NM, August 2001.
5. "Introduction to AASHTOWare Opus/Virtis -- A Two-day Short Course", Colorado Consultants, Denver CO, July 2001.
6. "One-Day Short Course on AASHTO Opus", National Steel Bridge Alliance, National Graduate Student Intensive Course, State University of New York, Buffalo NY, June 2001.
7. "Introduction to AASHTOWare Opus/Virtis -- A Two-day Short Course", Oklahoma DOT, Oklahoma City OK, March 2001.
8. "Introduction to AASHTOWare Opus/Virtis -- A Two-day Short Course", Massachusetts DOT, Boston MA, January 2001.
9. "Introduction to AASHTOWare Opus/Virtis -- A Two-day Short Course", Massachusetts DOT, Boston MA, August 2000.
10. "Introduction to AASHTOWare Opus/Virtis – PCA Professors' Seminar on Bridge Engineering", Portland Cement Association, Skokie, IL, August 2000.
11. "Introduction to AASHTOWare Opus/Virtis -- A Two-day Short Course", Colorado DOT, Denver CO, August 2000.
12. "Advanced AASHTOWare Opus/Virtis -- One-day Short Course with Emphasis on Concrete Bridges", National Course, Minneapolis, MN, July 2000.
13. "Review of BRASS-Girder (LRFD) with Respect to the LRFD Specifications", Kansas DOT, May 2000 (with Brian Goodrich).
14. "Modified Compression Field Theory with Examples", Bridge Design Workshop No. 6, Kansas State University, Manhattan, KS, October 1999.
15. "Introduction to AASHTOWare Virtis -- A Two-day Short Course", Minneapolis, MN, April 1999.
16. "Introduction to AASHTOWare Opus -- A Two-day Short Course", Sacramento, CA, April 1999.
17. "Unified Concrete Bridge Design," California Department of Transportation, Jan. 1999.

18. "Bridge Engineering – An LRFD Approach," Taught to 55 students via a satellite network to NDDOT, WYDOT, MTDOT, CSU, NDSU, USU, and UW. This was a full semester course. Spring 1997.
19. "Bridge Rating and Analysis of Structural Systems (BRASS) Workshop" AASHTO User's Group, Denver, CO, July 1995.
20. "Bridge Rating and Analysis of Structural Systems (BRASS)," Cheyenne, WY, June 1993 (FHWA Sponsored)
21. "Bridge Rating and Analysis of Structural Systems (BRASS)," Hartford, CN, June 1993 (FHWA Sponsored)
22. "Bridge Rating and Analysis of Structural Systems (BRASS)," Oklahoma City, OK, June 1993 (FHWA Sponsored)
23. "Bridge Rating and Analysis of Structural Systems (BRASS)," Phoenix, AZ, June 1993 (FHWA Sponsored)
24. "Bridge Rating and Analysis of Structural Systems (BRASS)," Honolulu, HI, Jan 1993 (FHWA Sponsored)
25. "Bridge Rating and Analysis of Structural Systems (BRASS)," Carson City, NV, April 1994 (FHWA Sponsored)
26. "Bridge Rating and Analysis of Structural Systems (BRASS)," Albany, NY, May 1994 (FHWA Sponsored)
27. "Bridge Rating and Analysis of Structural Systems (BRASS)," Baltimore, MD, May 1994 (FHWA Sponsored)
28. "Bridge Rating and Analysis of Structural Systems (BRASS)," Little Rock, AR, Sept. 1994 (FHWA Sponsored)

Continuing Education -- Student:

Building Energy Analysis Modeling, Greenbuild, Denver, CO, Nov. 2006.

FHWA/NCBC/NSBA LRFD Bridge Design Seminar, June 2-5, 2005.

AISC Steel Connection Short Course, Las Vegas, Feb. 2000.

National Highway Institute, LRFD Foundation Design, Cheyenne, WY, June 1999.

Railway Bridges: Inspecting, Rating and Upgrading, George Washington University, 1986.

Highway Bridges: Inspecting, Rating and Upgrading, George Washington University, 1986.

"Starting a High Technology Business," Phoenix, AZ, 1986.

ASEE Workshop on Physiological Type Testing and Application in Engineering Education, Cincinnati, OH, 1986.

"Engineering Computation on the IBM PC," University of Colorado at Boulder, CO, 1985.

"PATRAN Utilization," University of Wyoming, 1984.

"Simplified Concrete Design," Portland Cement Association, 1984.

Participation in two ASEE Effective Teaching Institutes.

"Concrete High-rise Building Design Seminar," Portland Cement Association, 1983.

"Design of Steel Joints and Diaphragms," American Institute of Steel Construction, 1983.

"Workshop on Structural Wood Research," National Science Foundation, 1983.

Courses Taught:

Graduate Classes:

Bridge engineering (traditional course)

Bridge Engineering (taught on satellite network to 55 students in University and DOTs)

Advanced Structural Analysis

Structural Dynamics

Advanced Concrete Design

Undergraduate Classes:

Concrete Design (senior)

Structural Analysis II (senior)

Structural Analysis I (junior)

Mechanics of Materials (sophomore/junior)

Dynamics (sophomore)

Statics (sophomore)

Engineering Computations - Introductory Freshman Course

Structural Design for Construction Engineers (Senior)

Other Professional Work: Numerous projects and software have been developed by BridgeTech, Inc. under Dr. Puckett's direction and leadership.

Professional Reports: Numerous.