

Brenda Robinson, Ph.D., P.E., C.G.C.
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RESEARCH INTERESTS: During over twenty-four (24) years of professional experience, I have performed diverse civil and structural engineering work. This work has included structures design, analysis, research, testing and teaching related to bridges, buildings and other structures. As a result, my research interests are diverse and are relate to innovations in building and bridge design and construction, innovations in building materials, structural mechanics, wind engineering, earthquake engineering and sustainable development.

PROFESSIONAL CERTIFICATIONS

Registered Professional Engineer, State of Florida (PE 0044767)
Registered Professional Engineer, State of Georgia (PE 021458)
Registered Professional Engineer, State of Illinois (PE 062056818)
State of Florida Certified General Contractor (CGC056016)
Florida Department of Environmental Protection, Qualified Stormwater Management Inspector (#1405)
Illinois Department of Transportation, Documentation of Contract Quantities (#04-0038)

EDUCATION

Doctor of Philosophy (Ph.D.), Florida State University, Tallahassee, Florida, April 2008.
Civil Engineering, Concentration in Structures. Dissertation: Performance Of Post-Tensioned Concrete Anchorage Zones With Steel Fiber Reinforced Concrete.

Master of Public Administration (MPA), Florida State University, Tallahassee, Florida, 1995.
Ruben O'D Askew School of Public Administration and Policy. Concentration in State Government. Action Report: Leon County Sheriff's Boot Camp - An Analysis of Options.

Master of Engineering (M. Eng.), University of Florida, Gainesville, Florida, 1990.
Civil Engineering Department. Concentration in Structural Engineering. Master's Report: Analysis And Design Of Hyperbolic Paraboloid Shells Using The Finite Element Method. Patricia Harris Fellow.

Bachelor of Science in Engineering (B.S.E.), Princeton University, Princeton, New Jersey, 1983. Concentration in Structures and Mechanics. Thesis: Competitions And United States Bridge Design.

ACADEMIC EXPERIENCE

Visiting Assistant Professor (Fall 2008 and Spring 2009).

Florida A & M University, College of Engineering Sciences, Technology and Agriculture. Division Technology. Teaching Courses and Labs in Civil and Construction Engineering: ETC 4454 Reinforced Concrete I and ETC 4454L , BCN 4705 Contracts, Codes and Laws, ETC 3211 Soil Mechanics and Foundations and ETC 3211L, ETG 2530L Strength of Materials Lab, BCN 3253 Construction Accounting.

Adjunct Faculty (Spring 2008).

FAMU/FSU College of Engineering, Civil & Environmental Engineering Department Teaching Civil Engineering Courses and Labs: CEG 3011 Soil Mechanics, CEG 3011L Soil Mechanics Lab, and CES 4101 Advanced Structural Analysis.

Graduate Research Assistant (2005-2007).

FAMU/FSU College of Engineering, Civil & Environmental Engineering Department Performed Research On The Enhancement Of Post-Tensioned Concrete Anchorage Zones With Steel Fiber Reinforced Concrete (SFRC) Project Which Was Sponsored By The Florida Department Of Transportation.

Adjunct Faculty (Fall 2004).

Triton College, River Grove, Illinois 60171, 708-456-0300. Taught Courses in the Construction Management Degree Program.

Construction Engineering Technology Program Area Coordinator, (Fall 1998-Sum. 2000).

Florida A. & M. University, Division of Engineering Technology, Construction Engineering Technology Program.

Assistant Professor, (1995-2002).

Florida A. & M. University, Division of Engineering Technology, Construction Engineering Technology Program. Taught courses, advised students, performed other duties.

Adjunct Professor (Fall 1994).

Florida Agricultural And Mechanical University, Tallahassee, Florida. Taught Computer Applications for Construction Management.

Adjunct Instructor (1990-1991).

Tallahassee Community College, Tallahassee, Florida. Taught Engineering Drawing I (basic drafting) and II (architectural drawing).

RESEARCH EXPERIENCE

FAMU/FSU College of Engineering: Using Steel Fibers To Improve Concrete Post-Tensioned Anchorage Zones (2004-2008). Performed material and specimen fabrication and testing as well as computer analysis.

FDOT Structures Research Center: Investigating Shear Strength And Behavior Of Prestressed Concrete Bridge Girders (1992-1993).

FDOT Structures Research Center: Evaluating The Field Performance Of Bridge Deck Expansion Joints (1993-1995).

FDOT Sunshine Skyway Bridge Site: Performing Creep And Shrinkage Test For Concrete (1984-1985).

Argonne National Laboratory: Research For Developing An Instrument To Identify Harmful And Carcinogenic Gases (1982)

OTHER PROFESSIONAL EXPERIENCE

President & C.E.O., 1994-2009

B. Robinson Corporation is a consulting, engineering and construction firm which provides diverse professional services. (Engineer Business License # EB0007028). These include services pertaining to civil and structural engineering, general construction contracting, real estate development and renovation, and related research.

Vice-President, Manager & Partner, 2003-2004.

HBM Engineering Group., LLC, Hillside, Illinois. Performed structural engineering design and analysis. Lead marketing efforts. Assisted in the management and reorganization of the firm.

Structures Research Engineer, 1991-1995.

Florida Department of Transportation, FDOT Structures Research Center, Tallahassee, Florida.
Project Manager: Bridge Deck Expansion Joint Project. Work included designing, planning, scheduling, supervising (contractors and FDOT personnel), coordinating, monitoring and reporting on field and laboratory work for the project.

Other Duties: Provided structural engineering support for lab research projects. This work included the design and analysis of structural components, writing research reports and presenting reports at FDOT conferences.

Structures Design Engineer, 1986-1991.

Florida Department of Transportation, FDOT Structures Design Office, Tallahassee, Florida. Performed structural analysis and design for bridge structures and components as a member of several groups within the Structures Design Office: Bridge Development Design (1991), Standards and Quality Assurance (1989-1990), Bridge Design Group (1986-1987).

Professional Engineer Trainee, 1984-1985.

Florida Department of Transportation, FDOT Structures Design Office, Tallahassee, Florida.
Sunshine Skyway Bridge Project: Coordinated and implemented the on-site instrumentation program for creep and shrinkage cylinder tests and strain gage and thermocouple instrumentation of bridge elements (i.e., piers, segments). Represented FDOT at several structural tests, assisted FDOT personnel and reported on construction activities.

Associate Engineer, 1983.

Westinghouse Electric Corporation, Madison, Pennsylvania, Structural Analysis Group.
Wrote FORTRAN software to display core assembly movements for the Clinch River breeder reactor.

Research Participant, Summer 1982.

Argonne National Laboratory, Argonne, Illinois.

Assisted Dr. Joseph Stetter and Dr. William Penrose with experiments for developing an instrument to detect and identify harmful and carcinogenic gases for the U. S. Navy. Prepared gas samples, performed photoionization experiments, and wired a computer.

RESEARCH ENGINEERING (WORK DESCRIPTIONS)

Structures Research Center

1. Performed shear and moment capacity analyses on a three (3) barrel box culvert (#560046) and another box culvert (#930439) for later comparison with FAMU researcher's results. (July-August 1995).
2. Functioned as project manager and was responsible for managing and coordinating a two year bridge deck expansion joint research project. This included designing, planning, coordinating, scheduling of the test program and related field activities including the removal, replacement, monitoring and load testing of bridge deck expansion joints. The project manager scheduled, coordinated and supervised work by the FDOT Structures Research Center, the FDOT District IV Maintenance Office, and 14 Expansion Joint Manufacturers and Suppliers. Using input from FDOT design, maintenance and district engineers, developed the criteria to be used for evaluation of bridge deck expansion joints, (1993-1995).
3. Wrote approximately 90% of the final report for the two (2) year bridge deck expansion joint research project. (June-July 1995). This final report, On-Site Evaluation of Bridge Deck Expansion Joints, was completed and distributed by FDOT in 1996.
4. Developed and distributed a survey concerning bridge deck expansion joint used in FDOT District Offices.
5. Planned and supervised the instrumentation and full scale load testing of bridges containing expansion joints, (1995).
6. Wrote an interim report on the bridge deck expansion project: On-Site Evaluation of Bridge Deck Expansion Joints, (1995).
7. Presented research results on the bridge deck expansion project at the FDOT Design Conference in Orlando, Florida (1995).
8. Assisted Dr. M. Issa in the structural analysis of steel truss members of an overhead variable message sign structure (I-75, 87270-3590). Wrote an EXCEL spreadsheet to analyze the stresses in truss members (i.e. struts and chords). This analysis was performed to help answer questions concerning design and strength raised by FDOT district engineers because of relatively large movements of the signs structures from wind loads (1995).
9. Performed an analysis of a reinforced concrete pier cap (I-295 over Memorial Park Road (Piers 1 WB and 2 WB), 72001-3471). This structure developed cracks shortly after construction. Performed a shear capacity analysis using the AASHTO code and the strut-and-tie method to determine whether the shear steel provided was adequate. (February 1995).

10. Analyzed the design capacity of a stepped piercap using the Strut -N -Tie method.
11. Designed a reinforced concrete double pile cap for embedding two prestressed piles for structural testing related to the AASHTO required pile embedment lengths, (April 1994).
12. Co-authored a research proposal for FDOT testing of prestressed concrete pile splicing methods, (1995).
13. Performed shear and moment capacity analysis of thirty-three (33) AASHTO Type II prestressed concrete girders. These girders were used in an extensive test program investigating shear capacity. This program consisted of having the girders cast at a precast plant and delivered to the FDOT Structures Research Center where they were instrumented, monitored during loading and tested to destruction. The test data as recorded by strain gages and a data acquisition system was analyzed. B. Robinson performed data reduction, presentation, analysis and reporting. B. Robinson observed the preparation and testing activities, (1992-1993)
14. Wrote a spreadsheet to compute the moment capacity along the length of prestressed concrete girders with draped prestressing strands.
15. During the brief existence of an office Quality Improvement Team, acted as team leader.
16. Supervised employees active in lab load testing and bridge load testing operations.
17. For the prestressed girder test program, wrote a LOTUS spreadsheet to calculate shear strengths of the AASHTO Type II prestressed concrete girders based upon the then current AASHTO code and the modified compression field theory as recommended in a new draft (proposed) AASHTO Load Resistant Factor Design (LRFD) Specification.
18. Co-authored a research report detailing the approach and results of the shear capacity study: An Investigation of Shear Strength of Prestressed Concrete Type II Girders, (January 1993).
19. Presented a paper at the FDOT Design Conference '93 in Orlando entitled: "Shear Design Provisions In The New Proposed AASHTO Code". This presentation discussed the shear design in the AASHTO code and LRFD Design provisions in the proposed AASHTO LRFD Specification. It included a comparison of design shear capacity and experimental test shear capacity results.

STRUCTURAL ENGINEERING (WORK DESCRIPTIONS)

Bridge Development Design

1. Performed structural analysis for bridge structures (reinforced concrete, prestressed concrete (pretensioned and post tensioned), steel) as a member of the Bridge Development Design Section. Helped check consultant designs and assisted with in-house investigations.
2. Performed a study with H. Bollman to investigate prestress losses, temperature effects, primary moments and secondary moments experienced by the SR83 over Choctawhatchee Bay Bridge as three (3) tendons are stressed at different stages of erection. Considered the combined effects of prestressing and temperature moments, (1991).

3. For Eau Gallie Bridge, computed secondary moments for stage II post-tensioning of two (2) - 145 ft Bulb-T Girders to form a continuous span. This was a part of a design check or construction support, (October 1991).
4. For the Golden Glades HOV (segmental box girder bridge spans) ,project # 87270-3419, at straddle bent NP-P1 and piers 31 and 32, checked column design, footing design and pile loads (checked consultants design). Used GTSTRUDL and Mississippi Column computer programs, (July 1991).
5. For the Golden Glades HOV (project # 87270-3419), checked the AASHTO prestressed girder design and pointed out improvements to the consultants design (i.e. recommended a 50% reduction in shear steel), (March 1991).
6. Computed reinforcing steel bar sizes and embedment lengths needed to resist longitudinal forces due to seismic loads and prevent girders from sliding off supports. Wrote a FORTRAN program to compute optimum lengths based upon certain assumptions per J. Evans. Wrote a LOTUS spreadsheet to determine the forces resulting from seismic loads per AASHTO Specifications (SPC B). Used SR16 over New River (#(040-3503) as a sample bridge, (1991).
7. Designed end and pier diaphragms (steel plates) for steel box girder bridge (17075-3433), (January 1991).
8. Assisted Professional Engineer (M. Bartholomew) in checking a curved box girder bridge (SR 681 over I-75 (17075-3433)) design using the DESCUS II computer program, (August 1990).

Standards and Quality Assurance

1. Assisted in the development of Structures Design Standards. Performed structural analysis and design of bridge components: bearing pads, prestressed slabs, prestressed double-tee beams, steel sign posts.
2. Wrote a Fortran computer program, SIGNPOST, to determine the maximum permissible height of steel angle supports for FDOT standard roadway traffic signs. Wind loads were considered. Results from this program were used to develop a FDOT Roadway Standard Drawing.
3. Performed a finite element analysis (FEA) using computer programs, STRUDL (used for the analysis) and BRUFEM (used to help generate the model), to determine the magnitude of the transverse stresses that would develop under vehicle loading (military and HS20) and determined the magnitude of the post-tensioning force needed to develop compressive stresses adequate to resist tensile stresses developed under loading. This work contributed to the efforts associated with the development of the FDOT prestressed double-tee and solid slab standard drawings. Standard pretensioned double-tee segments can be post-tensioned together to form short span bridges. (April 1989).
4. Performed calculations to design the roadway impact slab for FDOT structures standard.
5. Assisted in the efforts to develop structures standards for prestressed segmental solid slab bridges. Using a computer program, SPAN, determined design requirements for slab segments of various spans. (January 1989)

6. Using American Association of State Highway and Transportation Officials (AASHTO) design specifications, computed the maximum loads permissible on bridge neoprene bearing pad for Florida Department of Transportation (FDOT) structures standard development effort. Analyzed the FDOT neoprene bearing design to check compliance with AASHTO design specifications/guidelines. Determined that the bearing pads were satisfactory for axial compression but rotations in excess of recommended limits were likely. (March 1989).

Member of Bridge Design Group

1. Assisted in the design of bridge structures. Designed a reinforced slab bridge. Redesignated a prestressed post-tensioned bridge. Modified the design of a steel plate girder bridge. Helped check the design of a steel plate girder railroad overpass bridge. Became familiar with the Department's computer programs (Simon., WEAP86, STRUDL, Georgia Skew., etc.) and various design codes and manuals (AASHTO, ACI, PTI, etc.). Developed a Professional Engineer Trainee Bridge Design Manual for use by trainees who visited the design group.

2. Helped check steel welded plate girder design for SR 35 over SS Railroad (14050-3532) (July 1986).

3. Designed a bolted field splice for the steel welded plate girder design for SR35 over SS Railroad (14050-3532) (July 1986).

4. Redesignated / Updated design of prestressed, post-tensioned (segmental) concrete girder bridge, SR 9A over Pulaski Road (72002-1533). The plans for this bridge had been stored. Modified the existing design to comply with the then current AASHTO specifications. (December 1986).

5. Designed steel girders for two span continuous bridge (April 1986).

6. Designed a short span reinforced concrete bridge (including continuous slab and pile bents). Checked the plans produced by group members for accuracy. (1996)

7. Analyzed a steel plate girder bridge to see if lateral bracing could be removed. Performed the analysis using the AASHTO code and the SIMON computer program.

8. Delivered a slide presentation to the Structures Design Office explaining the construction methods used on the Sunshine Skyway Bridge.

9. Visited construction sites with other engineers (occasionally).

Member of Sunshine Skyway Bridge Field Office

As a Professional Engineer Trainee (PET), I was assigned to the Sunshine Skyway Bridge site for eighteen (18) months. This assignment including learning bridge construction techniques, assisting FDOT personnel as needed, reporting on construction activities, assisting in the instrumentation and testing program, conducting concrete creep and shrinkage tests, being a FDOT representative for various on-site structural tests.

1. Acted as co-project manager and later project manager for on-site creep and shrinkage tests. This included planning, scheduling, implementing, monitoring and reporting on concrete creep and shrinkage cylinder tests. The tests were performed according to American Standards of Testing and Materials (ASTM) standards. These tests were elements of a comprehensive

instrumentation and testing program implemented on the Sunshine Skyway Bridge.

2. Instrumented and loaded concrete cylinders in creep rigs for creep experiments. Monitored cylinders for creep.

3. Instrumented concrete cylinders for shrinkage experiments. Monitored cylinders for shrinkage.

4. Instrumented and monitored precast bridge elements (i.e. box girder segments, oval pier segments) for thermal effects and strains. Thermocouples and strain gages were tied to the steel rebar prior to casting the components. Structural elements were monitored prior to erection, after erection and at various stages of bridge construction.

5. Instrumented and monitored cast-in-place bridge elements (i.e. cable-stayed pylon base, pylon segment, pier segments) for thermal effects and strains. Thermal couples and strain gages were tied to the steel rebar prior to casting the components. Structural elements were monitored after casting a various stages of bridge construction.

6. Participated in the instrumentation of the main piers and their foundations.

7. Instrumented the pylons base (a mass concrete pour) and monitored thermal couples. Studied the thermal gradients and effects in mass concrete.

8. Supervised and trained one employee to assume the duties of on-site testing as my replacement when I returned to the main office.

9. Designed and coordinated the fabrication (by FDOT Maintenance Shop) and delivery of steel lock boxes for protecting instrumentation wires and housing the data acquisition computer system.

10. Acted as one of several FDOT representatives to witness the full-scale testing (at Gate Prestressing in Jacksonville, Florida) of the Prestressed Bulb-Tee girders to be used on the Eau Gallie Bridge.

11. As the FDOT representative, supervised the testing of the frangible struts (design to allow twin bridges to share a ship impact load but fail before both structures are endangered). It was important that the struts were designed to fail at a critical load. The tests were performed to check if the struts would perform as designed.

12. Frequented the precast plants and construction sites of contractors working of the project. This included the observation of production operations for prestressed AASHTO girders, prestressed piles, small reinforced concrete segmental box girders, large prestressed segmental box girders, reinforced concrete piers segments, dumbbell footings for foundations, frangible struts. Observed and learned about all aspects of concrete element production including formwork, steel placement, concrete batching, concrete placement, concrete finishing and concrete curing.

13. Studied and/or observed pile driving operations, concrete pre-tensioning operations, post-tensioning operations, fabricating prestressed girders, foundation construction, cofferdam construction, span-by-span, balanced cantilever erection, cable-stay erection, construction drawings and specifications.

14. Attended construction meetings between the FDOT, the Construction Consultants, the Design Consultants, and the Prime Contractor.
15. Authored several reports on the instrumentation program, construction activities, etc.

PROFESSIONAL ENGINEERING WORK (WORK DESCRIPTIONS)

1. Performed Wind Engineering For Residential And Other Structures, (2006-2008).
2. Designed Stormwater Retention Facility for Watson Temple Church (2003). Completed Site Engineering. As Engineer of Record Assisted Church in Receiving Certificate of Occupancy, (2007).
3. Completed Florida Department of Environmental Protection Interior Renovations, (2004)
4. Performed Design Engineering And Permitting Services For KOPYKAT Copy Center, (2002)
5. For Chaires Community Apostolic Holiness Church, Designed A Site Plan (Which Included Designing A Stormwater Pond And Landscape Plan) And Supervised Field Construction.
6. Leon County Housing Rehabilitation Program. Renovated A Single Family Home. This Work Included Completing An 860 SF Addition (Living Room, Bedroom, Bathroom And Covered Porch), Replacing Existing Windows And Adding Vinyl Siding On The Entire Structure.
6. CDBG Alberto Recovery Project, Phase 2 (Bid No. 2485-97-B01-1RS) For City Of Tallahassee. This Project Consisted Of The Restoration Of 14 Parcels To Pre-Developed Condition Including House Removal, Demolition And Clearance, (July-December 1997).
7. County Fire Stations Truck Bay Improvements No: 2512-97-B01-1KR) For The City Of Tallahassee. Work Consisted Of Providing Insulation In Walls And Attic, Installing Gypsum Board, Installing Wood Trim, Plastering Ceiling, Painting And Placing An Electrical Light And Switch In The Attic, (July-August 1997).
8. Repairs/ Renovations For Single Family Dwelling. Work Included Insulating The Attic, Replacing A Porch Post Repainting Rear Steps And Rail, Installing Deadbolts And Painting (As Needed), (July 1997).
9. Post-Tensioning Design For Prestressed Concrete Slab For Tallahassee Antique Car Museum As Sub-Consultant. This Design Was Necessary To Accommodate A Field Change During Construction, (April 1995).

ACADEMIC PROFESSIONAL SERVICE

Chairperson, Awards and Recognition Committee, College of Engineering Sciences, Technology and Agriculture (1999-2000).
Participated in Recruitment for FAMU Construction Engineering Technology (1999-2002)
Faculty Senator. Florida A & M University (1997-1999).
Associate Dean Search Committee, FAMU (1997)

Division Director Search Committee, FAMU (1996)
Summer Transportation Institute Assistant (1996)

OTHER PROFESSIONAL SERVICE

Member, City of Tallahassee, Environmental Variance Board, (2001-2003)
Habitat For Humanity Volunteer, Tallahassee, Florida. (2000)

TEACHING EXPERIENCE (COURSES TAUGHT)

Florida A & M University, Tallahassee, Florida

ETC 4454 Reinforced Concrete I
ETC 4454L Reinforced Concrete I Laboratory
BCN 4705 Contracts, Codes and Laws
ETC 3211 Soil Mechanics and Foundations
ETC 3211L Soil Mechanics and Foundations Laboratory
ETG 2530L Strength of Materials Laboratory
BCN 3253 Construction Accounting

Florida A & M Univ./ Florida State Univ. College of Engineering, Tallahassee, Florida

CEG 3011 Soil Mechanics
CEG 3011L Soil Mechanics Lab
CES 4101 Advanced Structural Analysis.

Triton College, River Grove, Illinois 60171, 708-456-0300

COT 245 Construction Jobsite Supervision
COT 250 Construction Project Management

Florida A & M University, Tallahassee, Florida

BCN 1221 Building Construction
BCN 2230 Materials and Methods of Construction I
BCN 2231 Materials and Methods of Construction II
BCN 3700 Construction Management I
BCN 3701 Construction Management II
BCN 4617 Construction Estimating I
BCN 4619 Construction Estimating II
BCN 4705 Contracts, Codes and Laws
BCN 4782 Computer Applications for Construction Management
GLY 2010 Principles of Geology
ETC 4454 Reinforced Concrete I
ETC 4455 Reinforced Concrete II
ETG 2510 Dynamics
ETG 2530 Strength of Materials
ETI5933: Advanced Topics in Construction- Planning and Scheduling

UNIVERSITY CLASSES TAKEN

Florida A & M University/ Florida State University, Ph. D. Program Courses:

Structural Dynamics
Prestressed Concrete
Fundamentals of Structural Stability
Environmental Systems Analysis
Advanced Structural Analysis
Composites in Civil Engineering
Advanced Steel Design
Highway Geometric Design
Project Controls in Construction
Intellectual History and the Future of Public Administration

Florida State University, MPA Courses:

Profession of Public Administration
Government Administration in Florida
Public Organizations
Political Economy of Public Administration
Research Design in Public Administration
Quantitative Analysis in Public Administration
Human Resource Management
Intergovernmental Relations
Policy Development and Administration
Data Information Management

University Of Florida, M. Eng. Courses:

Design of Highway Bridges
Finite Element Analysis
Design of Concrete Systems
Design and Construction of Timber Structures
Advanced Reinforced Concrete Design
Design of Reinforced Masonry Structures
Advanced Foundation Design
Computer Methods in Structural Engineering
Analysis of Pile Capacity and Settlement
Construction Entrepreneurship
Behavior of Steel Structures
Advanced Structural Analysis
Foundation Design

Princeton University, Undergraduate Courses:

Mechanics of Solids
Engineering Graphics and Surveying
Engineering and Environmental Geology
Fundamentals of Engineering Statistics
Mechanics of Solids and Fluids
Structural Analysis and Design
Structural Dynamics

Finite Elements Methods in Structures and Mechanics
Design of Large Scale Structures
Computer Methods in Engineering
Structures and the Urban Environment
Urban Transportation Systems
Description and Analysis of Price Systems
Mechanics of Fluids
Soil Mechanics
Analysis and Design of Reinforced Concrete Structures

CONTINUING EDUCATION/PROFESSIONAL DEVELOPMENT (COURSES TAKEN)

Informed Florida Professional Engineers Update (2007)
The Media Factory, Active Solar Energy Systems (2006)
The Media Factory, Advanced Building Codes, Building-Structural Summary (2006)
The Media Factory, Workers Compensation- A Brief History (2006)
Florida Department of Education, State Requirements for Educational Facilities and Chapter 423 of the Florida Building Code (2006)
FICE/ FDOT Design Conference 2004
Fundamentals of Construction Design (2004)
Understanding the 2003 International Energy Conservation Code (2004)
FICE/ FDOT Design Conference 2002
Building Structural- New Florida Building Code (2001)
Intelligent Transportation Systems Workshop. (1997).
Geographic Information Systems and Transportation Planning Workshop (1997)
FHWA Demonstration Project 82: Ground Improvement Mechanically Stabilized Earth Walls and Reinforced Soil Slopes (April 1997).
National Highway Institute Course - NHI Course #13064: This Was A Four Week Comprehensive Bridge Design Course. However, The Information Covered Was Not Limited To Bridge Applications. Topics Included Materials (Concrete, Steel, Timber) Properties And Applications, Reinforced Concrete Design, Prestressed Concrete Design, Steel Design, Timber Design, Construction Consideration Sand Methods, Etc.
Florida Technology Transfer Center Workshops:
Work Area Safety & Traffic Control (March 1996)
Portland Cement Concrete Inspection (April 1996)
H. J. Russell & Company Construction Management Seminar (November 1996)
National Highway Institute Course - NHI Course #13064:
 Bridge Engineering Week 1 (October 1996)
 Bridge Engineering Week 2 (January 1997)
 Bridge Engineering Week 3 (March 1997)
 Bridge Engineering Week 4 (June 1997)
Occupational Safety and Health Act (OSHA) Certification (10 hour course), (1996)
LRFD Design of Highway Bridges. FHWA Training Course by Modjeski and Masters, Inc. (January 1995).
Load and Resistant Factor Design of Highway Bridges - NHI #13061 (1995)
Florida Department of Transportation (FDOT) Design Conference (1995). Presented paper.
FAMU/SBDC-FDOT/CMDP, Scheduling for FDOT Construction (1994)
Florida Department of Transportation (FDOT) Design Conference (1993). Presented paper.
Florida Department of Transportation Training Courses:
 Certified Public Manager (CPM) Orientation (May 1995)
 Fundamental Skills of Communication (March 1994)

Fundamental Skills of Managing People (March 1994)
Employee Selection (April 1994)
EEO/AA and Sexual Harassment for Managers (June 1994)
LOTUS 123 Advanced (1994)
ADA in Employment and Promotion Consideration (September 1994)
Employee Performance Appraisals (June 1994)
Quality Improvement - Team Member Training (May 1992)
Supersap Training Class (October 1991)
FDOT 455 Foundation Specification (June 1991)
Quality Improvement - Team Leader Training (June 1990)
Quality Improvement - Team Member Training (January 1990)
Value Engineering Workshop (1987)
Post-tensioned Concrete Segmental Bridge Design (1986).
Post-tensioned Concrete Segmental Bridge Construction (1986).

Toastmasters International, Competent Toastmaster, Communication & Leadership (1990)
FHWA Foundation Course: Manual on Design and Construction of Driven Pile Foundations (FHWA-DP-66-1) (1989)
Drilled Shaft Construction and Inspection Techniques. Workshop by Schmertmann & Crapps at the Sunshine Skyway Bridge (1984).
Construction of Drilled Shafts (FHWA Workshop) (1984)

PUBLICATIONS

Robinson, B., Tawfiq, K., and Yazdani, Nur (2009). "Using Fiber Reinforced Concrete in Post-Tensioned Anchorage Zones". Paper to be published and Presented at the ASCE 2009 Structures Conference in Austin, Texas.

Robinson, B., Tawfiq, K., and Yazdani, Nur (2008). "Performance Of Post-Tensioned Concrete Anchorage Zones With Steel Fiber Reinforced Concrete", Paper accepted by the CBC 2008 Program Committee, 2008 Concrete Bridge Conference, St. Louis, Missouri.

Issa, M., Robinson, B., and Shahawy, M. (1996) "On-Site Evaluation Of Bridge Deck Expansion Joints". Paper presented by Dr. Issa at the International Conference on Bridge Bearings and Joints held in Sacramento, California.

Issa, M., Robinson, B., and Shahawy, M. (1996). On-Site Evaluation Of Bridge Deck Expansion Joints (Final Report). Tallahassee: Florida Department of Transportation.

Robinson, Brenda (1995). "On-Site Evaluation Of Bridge Deck Expansion Joints." Paper presented at the FDOT Design Conference in Orlando, Florida.

Robinson, B., Shahawy, M. and Issa, M., (1995) On-Site Evaluation Of Bridge Deck Expansion Joints (Interim Report). Tallahassee: Florida Department of Transportation.

Robinson, Brenda (1993). "Shear Design Provisions In Proposed AASHTO Code." Paper presented at the FDOT Design Conference in Orlando, Florida.

Robinson, Brenda (1995). Leon County Sheriff's Boot Camp - An Analysis of Options. MPA

Action Report presented to Florida State University, Tallahassee, FL.

Shahawy, M., Robinson, B., and Batchelor. (1993). Full-Scaled Testing Of Prestressed Concrete Girders. (Research Report). Tallahassee: Florida Department of Transportation.

Robinson, Brenda (1990). Analysis And Design Of Hyperbolic Paraboloid Shells Using The Finite Element Method. A Master's Report presented to University of Florida , Gainesville, FL.

Robinson, Brenda (1985). Competitions And United States Bridge Design. An undergraduate thesis presented to Princeton University, Princeton, NJ.

CONFERENCE PRESENTATIONS

Robinson, Brenda. (1993) "Shear Design Provisions in the AASHTO Codes". Paper presented at FDOT Design Conference in Orlando, Florida.

Robinson, Brenda. (1995) "On-Site Evaluation of Bridge Deck Expansion Joints". Paper presented at FDOT Design Conference in Orlando, Florida.

AWARDS/HONORS

Teaching Excellence Award. FAMU College of Engineering Sciences, Technology And Agriculture (CESTA).

National Council of Educational Opportunities Associations (NCEOA) Trio Achievers Award

Patricia Harris Fellow

Salutatorian, Andrew Jackson Senior High

PROFESSIONAL AFFILIATIONS

Florida Engineering Society (Current)

American Society of Civil Engineers. (Past)

National Association of Female Executives. (Past)

Toastmasters International, DOT Toastmasters, Past President of FDOT Chapter (Past)

Tallahassee Builders Association (Current)

Florida Home Builders of America (Current)

National Association of Women in Construction (Past)

Institute of Transportation Engineers (Past)

COMPUTER SKILLS/ EXPERIENCE

Computer Programming: FORTRAN, PASCAL (EDUCATIONAL), APL, BASIC.
Operating Systems: DOS, WINDOWS, UNIX.
Computer Applications: MISCROSOFT OFFICE APPLICATIONS (MSWORD, EXCEL,
POWERPOINT, MATHCAD, AUTOCAD, PRIMAVERA, PROLOG
MANAGER, MATLAB, MOCROSOFT PROJECT, AUTODESK
LAND DESKTOP 2005
Various Engineering Applications: RISA 3D, ANSYS, ALGOR, GTSTRUDL, BRUFEM,
SIMPAL, DESCUS II, GA SKEW, WEAP86, SIMON

OTHER

Spanish (some reading, writing and speaking ability)
Competent Toastmaster, Toastmasters International

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