

**JUDY A. PERKINS, Ph.D.**  
Civil & Environmental Engineering Department  
Prairie View A&M University  
Prairie View, Texas 77446

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## **EDUCATION**

Ph.D. in Civil Engineering  
Georgia Institute of Technology, Atlanta, Georgia

Certificate in Geographic Information Systems  
Georgia Institute of Technology Continuing Education, Atlanta, Georgia

Master of Science in Civil Engineering  
University of Illinois, Urbana-Champaign, Illinois

Bachelor of Science in Civil Engineering  
Southern University, Baton Rouge, Louisiana

## **ACADEMIC AND PRACTICAL EXPERIENCE**

### **October 2008 - Present**

Petroleum Operations Officer  
US Pacific Command, Camp Smith, Hawaii

### **September, 2007 – Present**

Regional Division Head (Prairie View A&M University)  
Texas Transportation Institute, Texas A&M University, College Station, Texas

### **July, 2007 – Present**

Advisory Board Member, University Transportation Center for Mobility, Texas Transportation Institute, Texas A&M University, College Station, Texas

Advisory Board Member, Mid-America Transportation Center, University of Nebraska, Lincoln, Nebraska

### **June, 2006 – Present**

Advisory Board Member, Houston National Summer Transportation Institute (HNSTI), Texas Southern University, Houston, Texas

Advisory Committee Member, Development Institute for Emerging Leader (DIEL) Program, Career Communications Group, Incorporated, Baltimore, Maryland

Intermodal Advisory Committee Member, Summer Transportation Institute (STI), Prairie View A&M University, Prairie View, Texas

**June, 2005 – October, 2008**

Commander/Transportation Management Officer  
369<sup>th</sup> Terminal Supervision Team, Houston, Texas

**July, 2004 – Present**

Professor and Department Head  
Civil & Environmental Engineering Department, Prairie View A&M University, Prairie View,  
Texas

Campus Liaison (Prairie View A&M University)  
Texas Department of Transportation, Austin, Texas

**September, 2002 – June, 2005**

Transportation Management Officer  
Military Traffic Management Command-Transportation Engineering Agency, Newport News,  
Virginia

**July, 2002 – December, 2003**

Expeditionary Logistics Science & Technology Product Line Manager  
Expeditionary Logistics Future Naval Capability, Office of Naval Research, Arlington, Virginia

**September, 1999 – June, 2004**

Associate Professor in Transportation Engineering  
Civil & Environmental Engineering Department, North Carolina A&T State University, Greensboro,  
North Carolina

**November, 1997 – May, 2000**

President and Owner  
BG Whyte Overseas, Inc., Baton Rouge, Louisiana

**September, 1995 - May, 1999**

Associate Professor in Transportation Engineering  
Civil & Environmental Engineering Department, Univ. of New Orleans, New Orleans, Louisiana

**August, 1994 - August, 1995**

Associate Professor in Transportation Engineering  
Civil Engineering Department, Southern University, Baton Rouge, Louisiana

Director, Women and Double Minority Engineers: Gaining Access to Transportation Careers &  
Research Opportunities Program  
Civil Engineering Department, Southern University, Baton Rouge, Louisiana

Director, Women Transportation Summer Institute (WETESI) Program  
Civil Engineering Department, Southern University, Baton Rouge, Louisiana

**January, 1987 - August, 1994**

Assistant Professor

Civil Engineering Department, Southern University, Baton Rouge, Louisiana

**November 1994 – August 2002**

Brigade S-2 (Security and Intelligence Officer)/Transportation Officer/Team Chief for  
Movement Team #8

1190th Deployment Support Brigade, Baton Rouge, Louisiana

**September 1990 - November 1994**

Petroleum Requirements Officer

377th Theater Army Area Command, New Orleans, Louisiana

**June, 1989 - September, 1989**

Transportation Planner

Transportation Planning & Analysis Group, Engineering Division,

US Department of Agriculture Region Six Forest Service, Portland, Oregon

**September 1988 - September 1990**

Quality Storage Control Officer

449th Theater Area Support Group, Forest Park, Georgia

**January, 1987 - August, 1988**

Engineering Summer Institute (ESI) Faculty & Project Advisor

Civil Engineering Department, Southern University, Baton Rouge, Louisiana

Petroleum Surveillance Officer

321st Material Management Center, Baton Rouge, Louisiana

**August 1985 - December 1986**

Smoke Generator/Operation Officer

378th Chemical Company, Urbana, Illinois

**October, 1984 - August, 1985**

Facilities/Petrophysical Engineer

Onshore East Exploration Division, Shell Oil Company, New Orleans, Louisiana

Supply Management Officer

688th Supply and Service Company, Slidell, Louisiana

**May, 1984 - October, 1984**

Maintenance Officer

692nd Maintenance Battalion, New Orleans, Louisiana

**May, 1983 - May, 1984**

Transportation Officer

1190th Deployment Control Unit, Baton Rouge, Louisiana

**Summer 1983**

Assistant Project Engineer Intern

Amoco Oil Company, Texas City, Texas

**REFERRED ARTICLES**

Nave, F., Frizell, S., Cui, S., Obiomon, P., and Perkins, J., "Charting the Course: The Impact and Implications of the Mentoring Experiences of Female Faculty in the College of Engineering at an HBCU," Faculty Resource Network Journal, Spring 2008, <http://www.nyu.edu/frn/publications/>

Carsie A. Hall, III, Calvin Mackie, and Judy A. Perkins, "Effect of Environmental Phase Characteristics on the Discharge of a Thermal Storage System," ASME Journal of Solar Energy Engineering, Volume 123, Issue 3, August 2001, pages 244-250

Hall, C.A., C. Mackie, and J.A. Perkins, "Freezing Couette Flow in an Annulus with Translating Outer Sleeve," AIAA Journal of Thermophysics and Heat Transfer, Volume 14, Number 4, July-September 2000, pages 609-611

Calvin Mackie, Carsie A. Hall, III and Judy A. Perkins, "Solidification of Circular Couette Flow with Viscous Dissipation," International Journal of Heat and Fluid Flow, Volume 22, Issue 4, August 2001, pages 473-479

**CONFERENCE PROCEEDINGS**

Judy Perkins, Matthew Hudson, and Yonggao Yang, "Developing a GIS-Based System for Analyzing Medical Transportation Activities," International Conference on Information and Knowledge Engineering Conference Proceedings, July 2008

F. Nave, S. Frizell, S. Cui, P. Obiomon, and J. Perkins, "Prairie View A & M University: Assessing the Impact of the STEM-Enrichment Program on Women of Color," Women in Engineering Programs and Advocates Network Conference Proceedings, June 2006

Kommalapati, R., Radha, R., Perkins, J., "Return on Investment: A Case Study of Prairie View A&M University's Summer Transportation Institute (STI) Program," 2006 American Society for Engineering Education Gulf-Southwest Annual Conference Proceedings, March 2006

Judy A. Perkins, Ibibia K. Dabipi, and Deborah Underwood, "Minority Students Gaining Access to Opportunities in Transportation Engineering: A Case Study," 2002 International Conference on Engineering Education, Manchester, United Kingdom, August, 2002

I.K. Dabipi and J.A. Perkins, "The Role of Regional Economics in Surface Transportation Policy Politics and the Decision Making Process," 32nd International Symposium on Automotive Technology & Automation, Austria, June, 1999

Surtain, D.L. and J.A. Perkins, "University of New Orleans' National Society of Black Engineers: Providing Minority Students Access to Engineering Opportunities," 1998 American Society for Engineering Education Gulf-Southwest Annual Conference Proceedings, March, 1998

Simmons, L.F., S. Brown, M. Dangerfield, B.A. Johnson, and J.A. Perkins, "Racism: The Overt and Subtle Marksman and the Target At-Risk," 1996 Minority Student Today: Recruitment, Retention, and Success, Conference Proceedings of Abstracts, October, 1996

Perkins, J.A. and I.K. Dabipi, "Assessing State Departments of Transportation Economic Development Practices: A Regional Perspective," 1996 International Association of Management and the Association of Management Conference, August, 1996

Perkins, Judy A., "Sustainable Development: What Is the Transportation Engineering Profession Doing To Address This Issue?" Society of Women Engineers, 1996 Conference/Convention Proceedings, June, 1996

Perkins, J.A., I.K. Dabipi, and L.F. Simmons, "Impact of an Alternative Teaching Method: Perspectives of Minority Female Engineering Students," 1996 Women in Engineering Conference, Women in Engineering Program Advocates Network (WEPAN), June, 1996

I.K. Dabipi and J.A. Perkins, "Safety Realities: Impact of Variable Speed Limits under State Legislation," 29th International Symposium on Automotive Technology & Automation, Italy, June, 1996.

I.K. Dabipi and J.A. Perkins, "Diversifying Access for Minority Engineering Students: Strategies for Colleges and Universities," 1996 Annual American Society for Engineering Education Gulf-Southwest Regional Conference Proceedings, March, 1996

I.K. Dabipi, R.J. Guerin, and J.A. Perkins, "Industries Responsibility as Customers of Undergraduate Engineering Programs," 1995 World Conference on Engineering Education, October 1995

I.K. Dabipi and J.A. Perkins, "The Influences of Institutions, Investments and Policies on Regional and Interregional Freight Transportation," 28th International Symposium on Automotive Technology & Automation, Germany, September, 1995

I.K. Dabipi and J.A. Perkins, "A Multi-modal Framework Strategy for Freight Transportation Investment in An Ever-Changing Global Economy," 28th International Symposium on Automotive Technology & Automation, Germany, September, 1995

Perkins, Judy A. and I.K. Dabipi, "Transportation Management Systems: What Is Their Status?" Society of Women Engineers, 1995 Conference/Convention Proceedings, June, 1995

I.K. Dabipi and J.A. Perkins, "Communication Protocol for Traffic Management: A Methodology for Standardized Protocol Development," 27th International Symposium on Advanced Transportation Applications: The 1994 Dedicated Conference on Advanced Transport Telematics/Intelligent Vehicle Highway System-Towards Development and Implementation, Germany, October, 1994

Simmons, L.F., J.A. Perkins, I.K. Dabipi and A.T. Cromwell, "Key Attributes of Self-Empowerment," Society of Women Engineers, 1994 National Conference/Convention Proceedings, June, 1994

Perkins, Judy A. and Ibibia K. Dabipi, "Using State-Level Transportation Planning to Diversify Louisiana's Economy," Society of Women Engineers, 1994 Conference/Convention Proceedings, June, 1994

Perkins, Judy A. and Linda F. Simmons, "Progress of Women: Leading the Way to Empowerment," American Society for Engineering Education, 1994 Gulf-Southwest Regional Conference Proceedings, March, 1994

Perkins, Judy A. and Ibibia K. Dabipi, "Statewide Intermodal Transportation Planning: Changing Institutional Perspectives," Institute of Transportation Engineers Compendium of Technical Papers, September, 1994

Perkins, Judy A. and Ibibia K. Dabipi, "Intermodalism for Louisiana: An Economic Development Perspective," The Louisiana Civil Engineer, Volume 2, Number 1, December, 1993

Perkins, Judy A., "Economic Development and State Transportation Agencies: A Regional Perspective," Transportation Research Board 72nd Annual Meeting, Washington, D.C., 1993

Perkins, Judy A., "Black Women Engineering Professors at Historically Black Colleges and Universities: Issues to Increase this Limited Supply," Society of Women Engineers, 1990 National Conference/Convention Proceedings

Perkins, Judy A., "Mentoring: Reducing the Attrition of Minority and Women Ph.D. Students Pursuing Science and Engineering Degrees," Society of Women Engineers, 1990 National Conference/Convention Proceedings

Perkins, Judy A., "Issues To Improve The Status Of Minority Students In The Civil Engineering Profession," American Society of Civil Engineers, 1990 National Forum on Education and Continuing Professional Development for the Civil Engineer

Perkins, Judy A., "Integrating Maintenance into The Civil Engineering Curriculum: Preparing Students To Meet The Challenges Of The 21st Century," American Society for Engineering Education, 1990 Southeastern Conference Proceedings

Perkins, Judy A., "Discussing Transportation Planning At the Graduate Level: An Economic Perspective," American Society for Engineering Education, 1990 Southeastern Conference Proceedings

Perkins, Judy A., "Recreational Amenities of the Pacific Northwest: A Growing Industry," Prepared for US Department of Agriculture Region Six Forest Service, Pacific Northwest Region, 1989

Perkins, Judy A., "Coalesce Ethics and Education: A Framework for Teaching," American Society for Engineering Education, 1989 Gulf-Southwest Conference Proceedings

### **ABSTRACTS**

Perkins, Judy A., "ABSTRACT on Institutionalizing Transportation Investments and Economic Development: The Role of State Departments of Transportation in Multi-State Economic Development Activities," Transportation Research: An International Journal, Volume 28A, Number 1, January, 1994.

Perkins, Judy A., "Institutionalizing Transportation Investments and Economic Development: The Role of State Departments of Transportation in Multi-State Economic Development Activities," Ph.D. Dissertation, Dissertation Abstract International, Volume/Issue 53-09A, University Microfilm Inc., 1993.

### **TECHNICAL REPORTS**

Raghava Kommalapati, Judy Perkins, William Stockton, Robert Benz, and Debbie Jasek, "Partnering to Promote Workforce Development for the Transportation Profession," Final Report Submitted to University of Transportation Center for Mobility, Texas A&M University, August 2008

Raghava Kommalapati and Judy Perkins, "Enhancing the Environmental Engineering Laboratory at Prairie View A&M University," Final Report Submitted to Ed Rachal Foundation, August 2008

C. Lewis, L. Higgins, J. Perkins, B. Zhan, and X. Chen, "Public Transportation Solutions for Regional Travel," Final Technical Report 0-5345-1 Submitted to Texas Department of Transportation, March 2008, Research Project Number 0-5345

Judy A. Perkins, Ibibia K. Dabipi, Lee D. Han, "Modeling Transit Issues Unique to Hurricane Evacuations: North Carolina's Small Urban and Rural Areas," Final Report Submitted to North Carolina A&T State University Transportation Institute, December 2001

Perkins, Judy A., "Assessing the Effectiveness of Louisiana's Transportation Infrastructure Model for Economic Development (TIMED) Program," Louisiana Department of Transportation & Development, Louisiana Transportation Research Center, August 1996, Research Project Number 95-1SS, State Project Number 736-99-0210

Perkins, Judy A. and Ibibia K. Dabipi, "Putting Intermodalism and Economic Development into Perspective: A Report on Louisiana's Intermodal Transportation Infrastructure Economic Development Initiatives," Louisiana Department of Transportation & Development, Louisiana Transportation Research Center, May 1996, Research Project Number 94-3SS(B), State Project Number 736-99-0098

Committee on Statewide Multimodal Transportation Planning, "Statewide Transportation Planning," Transportation Research Board, National Research Council, Transportation Research Circular, Number 471, May, 1997

Perkins, Judy A. and Ibibia K. Dabipi, "Intermodal Transportation Infrastructure Investment Planning: A Report on Economic Development Strategies Used by State Departments of Transportation-Phase I Report," Federal Highway Administration, May 1995, NTIS Number PB95-265526

### **GRADUATE THESIS SUPERVISED**

Hudson, Matthew E., "Developing a GIS-Based System to Spatially Analyze Medical Transportation Data for a Geographic Area," 2007

Russell, Barbara D., "Skid Resistance and Pavement Conditions: Identify Wet Weather Accident Locations," 2006

King, Tanya N., "An Infill Development Strategy Methodology: A Case Study of the City of Greensboro's Central Business District (CBD) and the Effects on Transportation Design, Movement, and Planning," 2003

Huffines, Chadwick D., "Geometric and Operational Analysis of Exclusive Dual Left-Turn Lanes in Greensboro, North Carolina," 2001

Patel, K. "An Optimization Approach for the Location of Hazardous Waste Disposal Facilities in North Carolina," 2000 (Committee Member)

Brim, Tamiko, "Applications of Numerical Analysis: Using Economic Variables Relating to High-Speed Rail as A Case Study," 1995

### **GRADUATE PROJECT SUPERVISED**

Wheeler, Charles, "Site Development: Rural Road in Prairie View, Texas," 2008

Mosaffa, Reza, "Pavement Management Information System," 2005

Deen, Mohamed S., "Traffic Management in the BIG DIG: Using the MITSIM Simulation Model," 2001.

## **UNDERGRADUATE RESEARCH PROJECT SUPERVISED**

### ***Dwight David Eisenhower Transportation Fellowship Program***

Keller, Andrea, "Coast -to- Coast, Border -to- Border Mobility," 2008-2009

Marsh, Patrinia, "Public Transportation in Rural America: A Case Study of Texas' Waller County," 2008-2009

Warren, Courtney, "Congestion Management and Mitigation in Houston, Texas," 2008-2009

Fitzpatrick, Velvet, "Extending Public Transit to Outlying Communities: Case Study of Kansas City Public Transportation System," 2006-2007, Presented at the Annual Dwight David Eisenhower Transportation Fellowship Program Research Showcase, 86<sup>th</sup> Transportation Research Board Annual Meeting, January 2007

Williams, Demetria, "Web-Based Emergency Management Integration System: Case Study of the Houston Region," 2006-2007, Presented at the Annual Dwight David Eisenhower Transportation Fellowship Program Research Showcase, 86<sup>th</sup> Transportation Research Board Annual Meeting, January 2007

Carpenter, J.F. and Fonteno, L.J., "Assessing MTP Services: A Case Study of Texas Urban Cities," 2005-2006

Carpenter, J.F. and Fonteno, L.J., "Tractor Truck: Innovative Components for Use by the Physically Impaired," 2004-2005

Cogdel, C.B., "Age and Mobility: Trends during 1972-2002," 2003-2004

Reames, T., "Modeling Transit Issues Unique to Hurricane Evacuations: North Carolina's Small Urban and Rural Areas," 2001-2002, Presented at the Annual Dwight David Eisenhower Transportation Fellowship Program Research Showcase, 81<sup>st</sup> Transportation Research Board Annual Meeting, January 2002

### ***Louis Stokes Alliance for Minority Participation Program***

Keller, A., Marsh, P., Navarro, S., Warren, C., and Williams, D., "Assessing the Impact of the STEM-Enrichment Program on Women of Color," 2005-2006

Roberts, Sharia E., "Third-Party Funding Sources: Program Development and Implementation," 2005-2006

Williams, D., "Visualization of Structural Command and Control Communications System," 2005-2006

### ***Texas A&M University System Pathways to the Doctorate Program Symposium***

Keller, A., Marsh, P., and Warren, C., "Dwight David Eisenhower Transportation Fellowship Program at Prairie View A&M University," 2008

Ford, N., Quinton, R., and Anane-Sekyere, A., “Investigating RFID for Roadside Identification of Commercial Vehicles,” 2008

Hudson, M. “Developing an Integrated WEB, GIS and Database System for Spatial Analysis of Medical Transportation Data,” 2007

Russell, B. D., “Wet Weather Accident Study,” 2004

### **UNDERGRADUATE SENIOR DESIGN PROJECT SUPERVISED**

Boys and Girls Club Complex and Residential Community, Prairie View A&M University, 2008-2009, (15 Students)

State Highway Improvement – US290 at Bauer Road, Prairie View A&M University, 2005-2006, (11 Students), Assisted 50% Time

Design of Bishop McGuiness High School Complex, Prairie View A&M University, 2004-2005, (6 Students)

Design of Wachovia-Bessmer Branch Bank, North Carolina A&T State University, 2004, (11 Students)

### **FUNDED RESEARCH PROJECTS**

“Asset Management for Safety and Operations,” Texas Department of Transportation, 2009-2011, Amount \$80,144, Principal Investigator

“Garrett A. Morgan Technology and Transportation Education Program,” US Department of Transportation, Federal Highway Administration, 2008-2010, Amount, \$114,000 Principal Investigator

“Benchmarking & Improving Texas Rural Public Transportation System,” Texas Department of Transportation, 2008-2009, Amount \$25,244, Principal Investigator

“Dwight D. Eisenhower Fellowship Program,” US Department of Transportation, National Highway Institute, 2008-2009, Amount \$22,500, Principal Investigator

“Feasibility & Applications of RFID Technologies to Support Right-of-Way Functions,” Texas Department of Transportation, 2008-2009, Amount \$62,660, Principal Investigator

“Investigating RFID for Roadside Identification of Commercial Vehicles,” Mid-America Transportation Center, University of Nebraska-Lincoln, 2008-2009, Total Project Amount, \$120,000, Sub-Award Amount \$9,025, Principal Investigator

“Promoting Workforce Development for the Transportation Profession through a Multi-University/Agency Partnership,” University of Transportation Center for Mobility, Texas A&M University, 2008-2009, Amount \$118,029, Co-Principal Investigator

“Texas Department of Transportation Technical Assistance Panel,” Texas Department of Transportation, 2008-2009, Amount \$10,000, Principal Investigator

“Dwight D. Eisenhower Fellowship Program,” US Department of Transportation, National Highway Institute, 2007-2008, Amount \$15,000, Principal Investigator

“Partnering to Promote Workforce Development for the Transportation Profession,” University of Transportation Center for Mobility, Texas A&M University, 2007-2008, Amount \$40,000, Co-Principal Investigator

“Texas Department of Transportation Technical Assistance Panel,” Texas Department of Transportation, 2007-2008, Amount, \$10,000, Principal Investigator

“Enhancing the Environmental Engineering Laboratory (Equipment Grant),” Ed Rachal Foundation, 2006-2008, Amount \$50,000, Co-Principal Investigator

“Dwight D. Eisenhower Fellowship Program,” US Department of Transportation, National Highway Institute, 2006-2007, Amount \$40,000, Principal Investigator

“Texas Department of Transportation Technical Assistance Panel,” Texas Department of Transportation, 2006-2007, Amount \$7,500, Principal Investigator

“Disaster Preparedness,” Texas Transportation Institute, 2006, Amount \$15,043, Principal Investigator

“Recruit and Prepare Underrepresented Environmental Engineers and Natural Resources Engineers,” US Department of Agriculture, 2005-2008, Amount, \$199,980, Principal Investigator

“Science, Technology, Engineering and Mathematics (STEM) Prep Institute,” US Department of Education, Minority Science and Engineering Improvement Program, 2005-2008, Amount \$298,068, Co-Principal Investigator

“Regional Public Transportation Solutions for Intercity Commute Traffic,” Texas Department of Transportation, 2005-2007, Amount \$40,375, Principal Investigator

“Dwight D. Eisenhower Fellowship Program,” US Department of Transportation, National Highway Institute, 2005-2006, Amount \$20,000, Principal Investigator.

“Visualization of Structural Command and Control Communications System,” US Air Force Research Laboratory, 2005-2006, Amount \$112,262, Co-Principal Investigator

“Texas Department of Transportation Technical Assistance Panel,” Texas Department of Transportation, 2005-2006, Amount \$7,500, Principal Investigator

“Dwight D. Eisenhower Fellowship Program,” US Department of Transportation, National Highway Institute, 2004-2005, Amount \$13,000, Principal Investigator

“Texas Department of Transportation Technical Assistance Panel,” Texas Department of Transportation, 2004-2005, Prior FY Award Average Amount \$6,375, Principal Investigator

"Consortium for ITS Training and Education," US Department of Education, 2001 - 2004, Amount \$21,550, Member of CITE University Partners

"Design and Implementation of a Web-Based GIS Road Closure Information System," UA Department of Transportation, Federal Highway Administration, 2001 - 2002, Amount \$274,438, Member of Research Team

"Modeling Transit Issues Unique to Hurricane Evacuations: North Carolina's Small Urban and Rural Areas," North Carolina A&T State University Urban Transit Institute, 2000 - 2001, Amount \$159,340, Principal Investigator

“Heat Straightening: Repairing Damaged Steel Bridge Members,” Federal Highway Administration, US Department of Transportation, 1996-1999, Amount \$25,000, Co-Principal Investigator

"Assessing the Effectiveness of Louisiana's Transportation Infrastructure Model for Economic Development (TIMED) Program," Louisiana Department of Transportation & Development and the Louisiana Transportation Research Center, 1995 - 1996, Amount \$35,000, Principal Investigator

"Intermodal Transportation Facilities: Developing A Comprehensive Methodology to Understand the Nature and Magnitude of State- and Multi-State Level Economic Development Impacts," National Science Foundation Young Investigator Award, August 1994 - May 1999, Amount \$125,000, Principal Investigator

"A Report on Louisiana's Intermodal Transportation Infrastructure/Economic Development Initiatives," Louisiana Department of Transportation & Development and the Louisiana Transportation Research Center, 1994 - 1996, Amount \$75,000, Principal Investigator

"Intermodal Transportation Planning: A Primer on Intermodalism and Economic Development Strategies," Federal Highway Administration, US Department of Transportation, August 1994 -May 1995, Amount \$25,000, Principal Investigator

"Using Multimedia Applications in Transportation Engineering," National Science Foundation Synthesis: A National Engineering Education Coalition, 1994 - 1995, Amount \$5,000, Principal Investigator

"Women and Double Minority Engineers: Gaining Access to Transportation Careers and Research Opportunities," General Electric Foundation, 1994 - 1995, Amount \$50,000, Principal Investigator

"Dwight David Eisenhower Faculty Fellowship," US Department of Transportation, Federal Highway Administration, 1994, Amount \$50,000, Principal Investigator

"The Development of a Model State Intermodal Transportation Plan", Louisiana Department of Transportation & Development and the Louisiana Transportation Research Center, 1993 - 1994, Amount \$102,929, Principal Investigator

### **RESEARCH PROJECT SUBMITTED**

"RFID and RTLS Enhancement for Inventory Management and Logistics of Space Transportation Systems," NASA Experimental Program to Stimulate Competitive Research, 2009-2012, Total Project Amount \$750,000, Sub-Award Amount, \$50,000, Principal Investigator, pending.

### **SERVICE**

#### ***University Level***

Co-Chair, Honors College Committee, Prairie View A&M University, 2008

Member, Founder's Day & Honors Convocation Steering Committee, PVAMU, 2008

Chair, Founder's Day & Honors Convocation Steering Sub-Committee for Honor Societies and Awards, Prairie View A&M University, 2008

Member, Women's History Month Planning Committee, Prairie View A&M University, 2008

Co-Chair, Educational Programs: Undergraduate Programs Compliance Certification Committee for the Southern Association of Colleges and Schools (SACS) Reaffirmation of Accreditation Process, Prairie View A&M University, 2008-Present

Co-Chair, Search Committee for Dean of College of Engineering, PVAMU, 2007

Member, Search Committee for Director of Public Safety, Prairie View A&M University, 2006

Member, Faculty Sabbatical Review Committee, Prairie View A&M University, 2005-2006

#### ***College Level***

Member, Fundamentals of Engineering Committee, Prairie View A&M University, 2007-Present

Member, Core Curriculum Committee, Prairie View A&M University, 2006

Member, Common Freshman Courses Committee, Prairie View A&M University, 2006

Member, Freshman Advisory Council, Prairie View A&M University, 2006

Member, Admission Committee, Prairie View A&M University, 2006

Member, Search Committee for Department Head for Management & Marketing Department, College of Business, Prairie View A&M University, 2006

Chair, Search Committee for Director of Student Engineering Programs, PVAMU, 2005-2006

Chair, Fundamentals of Engineering Committee, Prairie View A&M University, 2004-2007

Member, Grade Appeals Committee, North Carolina A&T State University, 2001-2002

Member, Common Courses Committee, North Carolina A&T State University, 2001-2001

Member, Screening Committee, School of Business and Economics, NCATSU, 2001-2002

Member, Academic Affairs Committee, North Carolina A&T State University, 1999-2001

Member, ABET Committee, North Carolina A&T State University, 1999

Member, Curriculum Committee, North Carolina A&T State University, 1999-2001

MentorNet Campus Representative, North Carolina A&T State University, 1999-2002 & 2004

Member, Search Committee for Department Chair, for Civil Engineering Department, College of Engineering, Southern University, 1993

### ***Department Level***

Southern Association for Colleges and Schools (SACS) Coordinator, PVAMU, 2008 – Present

Faculty Advisor, American Society of Civil Engineers, PVAMU Student Chapter, 2006-2007

Secondary Faculty Advisor, ASCE, PVAMU Student Chapter, 2005-2006

Member, Fundamentals Exam (FE) Committee, Prairie View A&M University, 2004-Present

Member, Student Advisory Group, Prairie View A&M University, 2004-Present

Property Officer, Prairie View A&M University, 2004-Present

Member, Undergraduate Recruitment/Retention Committee, NCATSU, 2001-2002

Member, Undergraduate Coordinators Committee, NCATSU, 2001-2002 & 2004

Member, Undergraduate Curriculum Committee, NCATSU, 2001-2002 & 2004

Member, Infrastructure Sub-Committee, NCATSU, 2001-2002 & 2004

Member, Service Courses Sub-Committee, NCATSU, 2001-2002 & 2004

Member, Common Core Courses Sub-Committees, NCATSU, 2001-2002 & 2004

Member, Student Retention Committee, NCATSU, 2001-2002 & 2004

Alternate Department Faculty Senator, North Carolina A&T State University, 2001-2002

ASCE Northern Branch Representative, North Carolina A&T State University, 2001-2002

Member, ABET Self-Study Report Committee, North Carolina A&T State University, 2001

Faculty Advisor, Institute of Transportation Engineers, NCATSU Student Chapter, 1999-2004

Faculty Advisor, Alpha Delta Epsilon Civil Engineering Honor Society, NCATSU Student Chapter, 1999-2002 & 2004 – Co-Hosts the annual Order of Engineers Ceremony

Honor's Program Advisor, North Carolina A&T State University, 1999-2002 & 2004

Faculty Advisor, NSBE, University of New Orleans Student Chapter, 1994-1999

Faculty Advisor, ASCE, Southern University Student Chapter, 1987-1988 & 2002-2005

Faculty Coordinator, Society of Women Engineers, Southern University Student Chapter, 1987-1988

**CONFERENCE ATTENDED (1993-Present)**

Society of Women Engineers Region C Conference, Houston, TX, 2009

Learning Communities, Prairie View A&M University, NW Graduate Center, Houston, TX 2008

ASCE Practitioner & Faculty Advisor Training Workshop, Reston, VA, 2007

NACME University and Corporate Partner Workshop, Boulder, CO, 2007

NSF Leadership Excellence for Academic Diversity (LEAD), National Workshop for SEM Chairs and Faculty, Seattle, WA, 2007

UGS GO PLM “*Rebuilding the South*” Media Event, Theme: Linking Government, Education, Industry and Innovation Networks Through Knowledge, Experience and Partnerships, Baton Rouge, LA, 2006.

ASCE National CE Department Heads Conference, Galveston, TX, 2006

NAE Dane and Mary Louise Miller Symposium, San Diego, CA, 2006

US Navy Educator VIP Tour, Bangor, WA, 2006

ASCE National CE Department Heads Conference, Salt Lake City, UT, 2005

American Council on Education Chairing the Academic Department, Washington, DC, 2005

Dane and Mary Louise Miller Symposium & 2005 Center for the Advancement of Scholarship on Engineering Education Annual Meeting, "Defining Research and Development Opportunities in Engineering Education," Indianapolis, IN, 2005

National Summer Transportation Institute 2006 Annual Business Meeting, Atlanta, GA, 2005

Project Kaleidoscope (PAL) National Colloquium, Kansas City, MO, 2005

NAE Rigorous Research in Engineering Education: Creating a Community of Practice, Golden, CO, 2005

Society of Women Engineers Region C Conference, New Orleans, LA, 2005

Banneker Institute for Science & Technology, Washington, DC, 2004

National Conference on Student Retention, New Orleans, LA, 2004

MentorNet Forum, San Jose, CA, 2002

Joint North Carolina ASCE & NCATSU ASCE Student Chapter Meeting, Greensboro, NC 2001 & 2002

NC Section Institute of Transportation Engineers Annual Meeting, Raleigh, NC, 2001 & 2002

Designing and Redesigning Engineering Courses to Address ABET EC2000 Workshop, 2001

International Transportation Symposium: Moving to the 21<sup>st</sup> Century-Best Practices of Today and Lessons for Tomorrow, 2000

WTS Transportation Seminar, Raleigh, NC, 2000

ASCE Delegate of the People to People Ambassador Program, China, 2000

Faculty Development Workshop for Honor Advisors, Greensboro, NC, 2000

ABET 2000 Gateway SUCCEED-GATEWAY Conference, Greensboro, NC, 2000

ABET 2000 Workshop, New Orleans, LA, 2000

National Society of Black Engineers Annual Conference, Anaheim, CA, 1996

Session Moderator, 1996 Midwest Women's Studies Association Conference, April 1996

Transportation Research Board Annual Meeting, Washington, DC, 1993-2001, 2003, and 2005-2007

### **INVITED SPEAKER AND PRESENTATIONS**

Poster Presentation, "Driving Innovation to Commercialization," Gulf Coast Innovation Conference, November 2008

Cui, S., Frizell, S., Obiomon, P., Perkins, J., and Nave, F., "Female Faculty Mentoring: A Case Study of the Experiences of Female Faculty in the College of Engineering at Prairie View A&M University," Panel Presentation at the Faculty Resource Network National Symposium, Charlotte, North Carolina, November 2007

Session Speaker, "Introduction to Science, Technology, Engineering, and Mathematics (STEM)," STEM Prep Institute Enrichment Camp, Prairie View A&M University, Prairie View, TX, June 2007

Keynote Speaker for the Black History Month Program, Galveston District Corps of Engineers, Department of the Army, Galveston, Texas, February 2007

Presidential Scholarship Presentation, Forest Brook High School, Houston, Texas, May 2006

Luncheon Speaker, NSF Scholars' Engineering Luncheon and Workshop, Houston Community College-Town & Country Campus, Houston, TX, December 2005

Session Speaker, "The Road Ahead: Promises and Perils," Faculty and Professional Staff Annual Conference, Prairie View A&M University, Prairie View, TX, August 2005

Keynote Address - "Our Future Customers," Prairie View A&M University, Summer Transportation Institute Awards Ceremony, Prairie View, Texas, July 2005

Session Speaker, "What is Civil Engineering All About?" Minority Introduction to Engineering and Science (MITES) Program, Prairie View A&M University, Prairie View, TX, June 2005 & June 2008

Workshop Presenter/Speaker, "Professional Development: Fundamentals of Engineering Exam," National Society of Black Engineers Region 5 Conference, Houston, Texas, November 2004

"Future Naval Capabilities Overview," Naval Construction Force Logistics Working Group, Port Hueneme, California, March 2003

Invited Speaker, National Advisory Committee, Urban Transit Institute Annual Meeting, April 2002

Presenter, Montilieu Elementary School Third Graders Mini Tour, NCATSU, Greensboro, North Carolina, April 2002

“DARPA’s One-Way Phraselator Language Translation Technology: Ulchi Focus Lens (UFL)-02,” DARPA’s Babylon PI Meeting, New Orleans, Louisiana, November 2002

“Elderly and Handicapped Hurricane Evacuation in Small Urban and Rural Areas,” 7<sup>th</sup> Annual Southeast Local Roads Conference, Myrtle Beach, South Carolina, September 2002

"North State Gold Mine Resistivity Survey," Masters Seminar North Carolina A&T State University, Civil & Environmental Engineering Department, Greensboro, North Carolina, March 2002

"Modeling Transit Issues Unique to Hurricane Evacuations: North Carolina Carolina's Small Urban and Rural Areas," Masters Seminar North Carolina A&T State University, Civil & Environmental Engineering Department, Greensboro, North Carolina, March 2002

"Intelligent Transportation Systems in North Carolina," Masters Seminar, North Carolina A&T State University, Civil & Environmental Engineering Department, Greensboro, North Carolina, October, 2001.

Presenter, “Females Involved in Real Science and Technology (F.I.R.S.T),” Junior League of Greensboro and Tarheel Triad Girl Scout Council, April 2001

"Female Engineers in the Workplace," Senior Seminar, North Carolina A&T State University, Civil & Environmental Engineering Department, Greensboro, North Carolina, November 1999

"Enhanced Sustainment of Heavy Equipment," Masters Seminar, North Carolina A&T State University, Civil & Environmental Engineering Department, Greensboro, North Carolina, November 1999

"Overview of the Civil Engineering Profession," Engineering Summer Institute Program, Southern University, Baton Rouge, Louisiana, June 1993

"Elements of Success for Careers in Science and Engineering," Spelman's College Fifth Annual Science Day, Atlanta, Georgia, March 1993

"Relating Transportation Investments and Economic Development: A Case Study of Louisiana's Department of Transportation," 1993 Louisiana Transportation Engineering Conference, Baton Rouge, Louisiana, February 1993

"Intermodal Transportation Planning," 1993 Louisiana Transportation Engineering Conference, Baton Rouge, Louisiana, February 1993

"Overview of Civil Engineering Opportunities," Pre-College Engineering Program, Georgia Institute of Technology, Atlanta, Georgia, July 1992

"Overview of Civil Engineering Opportunities," Minority Introduction to Engineering, Georgia Institute of Technology, Atlanta, Georgia, July and August 1992

"Preparing for the Freshman and Sophomore Engineering Years," Undergraduate Engineering Program, Clark-Atlanta University, Atlanta, Georgia, July 1991

### **PROFESSIONAL ACTIVITIES**

Session Facilitator, Session I: Setting Institutional Imperatives that Advances PVAMU's Mission and Goals in a Climate of Change, Faculty and Professional Staff Annual Conference, Prairie View A&M University, Prairie View, TX, August 2008

Session Facilitator, Session II: How Can What We Know and What We Wish We Knew Yield a Plan for Raising Measurable Quality Enhancement in Student Learning Achievement, Faculty and Professional Staff Annual Conference, Prairie View A&M University, Prairie View, TX, August 2008

Evaluator, USDA/1890 Capacity Building Grant Program, Prairie View A&M University, 2008

Participant, HBCU-UP Education Research Pilot Project, Prairie View A&M University, December 2007

Faculty Fellow Mentor for Incoming Freshman, University College, Prairie View A&M University, September 2007-Present

Session Moderator, "Vital Few: Emergency Preparedness, Response and Recovery," 14<sup>th</sup> Annual Dwight David Eisenhower Transportation Fellowship Program Research Showcase, 86<sup>th</sup> Transportation Research Board Annual Meeting, January 2007

Evaluator, Outstanding University Mentor, Sponsored Program Office, Southern University 2006

Evaluator, Outstanding University Research Investigator, Sponsored Program Office, Southern University, 2006

Member, Transportation Assistance Panel-2 of the Research Management Committee-2, Texas Department of Transportation, 2004 – Present

Mentor, Greensboro's Junior Girl Scout Troop #1017, 2004

Planning Committee Member, NC Section Institute of Transportation Engineers (NCSITE), 2004

Proposal Reviewer, North Carolina A&T State University Urban Transit Institute, 2001 and 2004.

Proposal Reviewer, North Carolina A&T State University Urban Transit Institute Dwight David Eisenhower HBCU Transportation Fellowship Program, 2000-2003 and 2005-2009

Panel Discussion Participant, North Carolina A&T State University Urban Transit Institute 30<sup>th</sup> Anniversary, 2000

Proposal Reviewer, New England University Transportation Center, 2000

Mentor, Students Preparing for FE Certification, 1999-2002 & 2004-Present

Journal Reviewer, Journal of Urban and Planning Development, ASCE, 1999-2002

Transportation Research Record Journal and Session Presentation Reviewer, Transportation Research Board Committee on Transportation and Economic Development, 1999

Member, Committee on Transportation and Economic Development, National Research Council, Transportation Research Board, 1997-2000

Review Panelist on Transportation, National Science Foundation CAREER Program, 1997.

Project Panelist, Transit Cooperative Research Programs, Project #B-13, National Research Council, Transportation Research Board, 1996-1999

Proposal Reviewer, Southern University Dwight David Eisenhower Fellowship Program - April, 1996 & 1997

Judge for the Louisiana Science Fair, Division of Engineering, April 1996

Proposal Reviewer, U.S. Department of Education Minority Science Improvement Program, March 1996 & April 2003

Society of Women Engineers (Baton Rouge Chapter) Career Guidance for High School Students Panelist - February 1996

Society of Women Engineers (Baton Rouge Chapter) Habitat for Humanity Saturday Community Project, February 1996

Member, Institute of Transportation Engineers Education Council, 1996 - Present

Break-Out Session Facilitator, American Society for Engineering Education, Forum on Minority Faculty Development, Sponsored by The Coalition Wide Task on Minorities ECSEL Engineering Education Coalition, Anaheim, CA., June 24, 1995

Evaluation Panelist for the Department of Defense Acquisition Scholarship Program, Northeast Consortium for Engineering Education, April 7-9, 1995 & April 12-14, 1996

Proposal Reviewer, U.S. Department of Education Graduate Assistance in Areas of National Need Program, February - March 1995, February 1997, Spring 1998, Spring 2001, March 2003, January 2006, and April 2009

Project Panelist, National Cooperative Highway Research Programs, Project #8-32(1), National Research Council, Transportation Research Board, March, 1994 - May, 1996

Member, Programme Committee, 27th International Symposium on Advanced Transportation Applications, Germany, 1994

Member, Committee on Statewide Multimodal Transportation Planning, National Research Council, Transportation Research Board, 1993-1996 & 1996-1999

Member, Louisiana Statewide Intermodal Technical Advisory Committee, 1992 - 1995

### **HONORS AND AWARDS**

STEM Enrichment Camp Appreciation Award, Prairie View A&M University-2008

2007 Summer Transportation Institute Appreciation Award, Prairie View A&M University-2007

US Army Corps of Engineers, Southwestern Division, Galveston District Black History Month Award-2007

Chi Epsilon National Honor Society Award, Texas A&M University-2006

Distinguished Alumni Engineering Educator in Civil Engineering Award, Southern University 50<sup>th</sup> Anniversary of the College of Engineering-2006

2006 Summer Transportation Institute Appreciation Award, Prairie View A&M University-2006

2005 Spring Graduating Class Appreciation & Service Award, Prairie View A&M University-2005

2005 Summer Transportation Institute Appreciation Award, Prairie View A&M University-2005

Who's Who in Engineering Education-2005

Civil Engineering Faculty Service Award, North Carolina A&T State University-2004

American Society for Engineering Education-NAVY Summer Faculty Fellow Award - 2003

Civil Engineering Alpha Delta Epsilon Faculty Service Award, North Carolina A&T State University-2003

Women of Color Educational Leadership Technology Award-2002

Civil Engineering Outstanding Service Award, North Carolina A&T State University-2002

Civil Engineering Alpha Delta Epsilon Faculty Advisor Award, North Carolina A&T State University-2002

American Society for Engineering Education-NAVY Summer Faculty Fellow Award - 2002

Most Outstanding Faculty Member in Civil Engineering, North Carolina A&T State University-2002

American Society for Engineering Education-NAVY Summer Faculty Fellow Award - 2001

Marine Forces Pacific Command Appreciation Award - 2001

American Society for Engineering Education-NAVY Summer Faculty Fellow Award - 2000

Most Outstanding Faculty Member in Civil Engineering, North Carolina A&T State University-2001

American Society for Engineering Education-NAVY Summer Faculty Fellow Award - 1999

Certificate of Recognition, Office of Naval Research and American Society for Engineering Education - 1999

Naval Facilities Engineering Service Award - 1999

Golden Key National Honor Society Honorary Member Award, Univ. of New Orleans - 1998

Dwight David Eisenhower Faculty Fellowship, Federal Highway Administration - 1994

Who's Who in the South and Southwest - 1990

Outstanding Young Women of America - 1988

American Society for Engineering Education Helen Carr Fellowship - 1988

National Consortium for Educational Access Fellowship - 1988

Georgia Institute of Technology Presidential Fellowship - 1988

Most Outstanding Faculty Member in Civil Engineering, Southern University – 1988 & 1994

Most Outstanding Faculty Member in the Engineering Summer Institute Program, Southern University – 1987

### **OTHER RELATED RECOGNITIONS**

Appeared in the US Black Engineer and Information Technology Magazine, Volume 32, Number 2, May/June 2008, pages 48-49

One of (35) women recognized during Women's History Month at Prairie View A&M University, February 2008

Appeared in the Mid-America Transportation Center Magazine, Volume 1, Spring 2008, page 7

Appeared in the University Transportation Center for Mobility, Spring 2008, page 11

Appeared in the Women of Color Conference Magazine, Volume 2, Number 3, September 2002, pages 29, and 36-38

### **PROFESSIONAL ORGANIZATIONS**

Chi Epsilon

Pi Mu Epsilon

Alpha Chi

Alpha Kappa Mu

American Society of Civil Engineers

Society of Women Engineers

American Society for Engineering Education

Institute of Transportation Engineers

Deep South Institute of Transportation Engineers

National Society of Black Engineers

Transportation Research Board

Golden Key National Honor Society

Consortium for ITS Training & Education (CITE)

### **PROFESSIONAL REGISTRATION**

E-I-T Louisiana registration #10331

### **COURSES TAUGHT**

#### ***Undergraduate***

Engineering Economy

Principles of Highway and Transportation Engineering

Transportation Engineering Design

Transportation Engineering

Transportation Engineering I

Logistics Management

National Transportation Management

Technical Communications

Pre-stressed Concrete Design  
Engineering Mechanics I - Statics  
Elementary Engineering Statistics  
Engineering Use of Computers  
Freshman Engineering Design  
Civil Engineering Colloquium I & II  
Civil Engineering System Design  
Introduction to Engineering, Computer Science, and Technology  
Introduction to Civil Engineering Laboratory  
Senior Design & Professionalism I & II  
Professional Engineering I  
Surveying  
Fundamental to Electrical Engineering and Creative Engineering  
Civil Engineering Internship I & II  
Emerging Issues in the Civil Engineering Profession

***Graduate***

Advanced Transportation  
Geometric Design of Highways  
Mass Transportation  
Traffic Engineering  
Traffic System Analysis  
Urban Transportation Planning

**COURSES DEVELOPED**

***Undergraduate***

Transportation Engineering II - Geographic Information System Technologies – Southern University - 1993  
Application of GIS in Environmental Engineering and Natural Resources – Prairie View A&M University, 2006 (Co-Developed)  
Water Resources Management – Prairie View A&M University, 2007(Co-Developed)  
Engineering and Natural Resources – Prairie View A&M University, 2009 (Co-Developed)

***Graduate***

Public Transportation Systems - North Carolina A&T State University, 2001  
Modeling of Transportation Systems – North Carolina A&T State University, 2001  
Public Transportation – Prairie View A&M University, 2006  
Urban Transportation Planning – Prairie View A&M University, 2006

## **PROFESSIONAL SERVICES**

Project: ONR Consumption Reduction Product Line Study (2002-2003)  
Anteon Corporation, Oxnard, CA

Project 1: Language Phraselator Evaluator (2002)

Project 2: Expeditionary Logistics Command & Control Decision Support System Analyst (2002)  
Marine Forces Pacific Experimentation Center, Honolulu, HI.

Project: Patent Invention Perspectives in 2D and 3D (2002)  
Office of Elvord "Floyd" Guidry, Jamestown, North Carolina

Project: Mobility/Transportation Standard Operating Procedures (2001)  
Marine Forces Pacific Command, Honolulu, HI.

Project: Combat Service Support Logistics Technologies Analysis (2000)  
Marine Corps Warfighting Laboratory, Quantico, VA.

Project: Transportation Pilot Study (2000)  
Florida A&M University, Tallahassee, FL

Project: Enhanced Sustainment of Heavy Equipment Study (1999)  
Naval Facilities Engineering Service Center, Port Hueneme, CA

Project: Mathematica Survey Analysis (1997)  
Gateway Regional School-to-Work Partnership Office, Baton Rouge, LA

Project: School-to-Work Data Collection and Analysis (1997)  
West Baton Rouge Parish School Board, Port Allen, LA

Project: School-to-Work Data Collection and Analysis (1997-1998)  
Pointe Coupee Parish School Board, New Roads, LA

Project: Pedestrians Data Collection Coordinator (1996-1999)  
University of North Carolina Highway Safety Research Center, Chapel Hill, NC

Project 1: School-to-Work Evaluation Assessment (1997)

Project 2: Business Partners Report (1997)

Project 3: State Quarterly Measures Survey (1997)

Project 4: National Progress Measures Survey (1997)

Project 5: Co-generation Feasibility Study (1994-1995)

D-Metro Group, LLC, New Orleans, LA

Project: AMID Study (1996)

Metro Consulting & Research Firm, New Orleans, LA

### **CIVIC ORGANIZATIONS**

Delta Sigma Theta Sorority, Incorporated  
National Black Child Development Institute

### **COMMUNITY AFFILIATION**

Oasis Christian Center - Member, Board of Advisors - 1995-1996  
Oasis Christian Center - Chair, Finance Committee - 1995-1996  
Urbana Urban League Association - 1985  
Atlanta Area Council Boy Scouts of America Safety Committee – 1993-1995  
Wannamuse Institute for Arts, Culture, and Ethic Studies - Member, Board of Directors - 1996