

DIRECTORY  
OF  
CENTER PERSONNEL

FISCAL YEAR 2009

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Finished Project: The Use of Transportation Models in Rural  
Study Areas (FR-1006)

Finished Theses: Planning for Congestion and Congestion  
Management Under the Intermodal Surface  
Transportation Efficiency Act of 1991 --  
AHTD Independent Graduate Assistantship for  
Scott Bennett (FR-1028)

An Approach to the Problem of Non-  
Coterminous Boundaries, A Critique and  
Rejection of Traditional Splitting Factors --  
Fellowship for Kevin Goff (FR-8501)

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Finished Project: Design of a Mobility Information Management  
System (MIMS) (FR-2020)

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Finished Project: Physical, Logistic and Economic Feasibility of  
Petroleum/Grain Exchange Shipments with  
Russia (FR-2038)

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Current Project: Economics of a Two-Step Biodiesel Process  
Involving Supercritical Methanol Esterification  
(3009)

Finished Project: Comparative Esterification of Agricultural Oils  
for Biodiesel Blending (FR-2052)

Biodiesel Production from Varying Grades of  
Beef Tallow and Chicken Fat (FR-2058)

Yield Characteristics of Biodiesel Produced  
From Chicken Fat-Tall Oil Blended Feedstocks  
(FR-2092)

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Current Project: Identification and Analysis of Points and  
Segments of High Fatality Crashes  
(2099/3006)

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Finished Project: Marketing of Container-on-Barge (COB)  
Transportation to Promote Increased  
Utilization of Arkansas Waterways (FR-  
1100)

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Finished Theses: Physician's Workstation for Rural Health Care  
-- Independent Graduate Assistantship for  
Scott Mills (FR-1030)

The Physician's Diagnostic and Information  
Center: An X Windows Sun Workstation Based  
Prototype of a Telemedical Information  
Processing Package with 2D and 3D Medical  
Image Processing Capabilities Including 3D  
Registration of Multi-Modal Data Sets -  
Independent Graduate Assistantship for  
Robert Kaduchak and Alan Simkins (FR-1002  
- Robert Kaduchak)

A Study of the Client-Server Approach for the  
Physician's Workstation Using Microsoft  
Windows and TCP/IP - Independent Graduate  
Assistantship for Robert Kaduchak and Alan  
Simkins (FR-1002 - Alan Simkins)

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Finished Project: GIS-Based BMP Planning Tool for Stormwater  
Quality Management (FR-2031)

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Finished Projects: Evaluating the Role of Public Transportation  
in Welfare Reform (FR-1088)

Assessment and Development of Scheduling  
and Dispatching Software for Arkansas Public  
Transit (FR-1085)

Potential Barge Transportation for Inbound  
Corn and Feed Grains (FR-1063)

Assessment of Arkansas Economic Impacts of  
Rural Public Transportation (FR-1062)

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Finished Thesis: A Nondestructive Testing Procedure for  
Penetrating Concrete Sealers on Tyned

Concrete Finishes -- Independent Graduate  
Assistantship for Jeffrey Reynolds (FR-1023)

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Finished Project: Improved Traffic Signal Efficiency in Rural  
Areas Through the Use of Variable Maximum  
Green Time (FR-2093)

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Finished Projects: Empty Container Management for Container-  
on-Barge Transportation (FR-2003)

A Simple Approach to Linehaul Backhaul  
Problems (FR-1102)

Optimal Door Assignment in Breakbulk  
Terminals (FR-1084)

A GIS Based Intelligent Trailer Management  
System (FR-1066)

Optimal Design of Merge-in-Transit  
Distribution Networks (FR-1064)

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Current Project: Accelerated Characterization of Full-Scale Reinforced Flexible Pavement Models Using a Vibroseis (3013)

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Finished Thesis: A Graphical Front-End for a Concrete Information and Mixture Database-- Independent Graduate Assistantship for John Lohmann (FR-1029)

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Current Project: A Cost-Driven Policy Approach for Development of On-Street and Off-Street Bicycle, Multi-Use and Single-Use Paths and Related Facilities (3010)

Finished Project: Roundabout Feasibility Study for Wet Memphis, Arkansas, as Prototype for

Intersection Improvement Around Interstate  
Overpasses (FR-2072)

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Finished Project: Strategy, Structure, and Performance of  
Rural Transportation Companies (FR-1058)

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Finished Project: Driver Management Practices: Longitudinal  
Examinations Across Respondents and Events  
(FR-1086)

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Current Projects: Evaluations of Pavement Thickness and  
Modulus Using Spectral Analysis of Surface  
Waves (2074)

Route and Site Characterization Using Multi-  
Spectral Satellite Imagery (2037)

Using Multi-Spectral Satellite Imagery to Enhance Slope Failure Prediction (2026)

Estimating Subgrade Resilient Modulus for Pavement Design (2007)

Investigation of the Long Term Stability of Highway Slopes – Phase III (2006)

Investigation of the Long Term Stability of Highway Slopes – Phase II (1097)

Investigation of the Long Term Stability of Highway Slopes – Phase I (1090)

Finished Projects: Development of Testing Protocol and Correlations for Resilient Modulus of Subgrade Soils (FR-2032)

Investigation of the Affect of Fines on Base Course Performance (FR-2027)

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Finished Project: Identification of Countermeasures to Reduce Severity of Rural Highway (FR-2051)

Effects of Not Wearing Safety Belts on Injury Severity (FR-2080)

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Finished Projects: Storm Water Pollution Prevention Best  
Management Practices for Transportation  
Facilities (FR-2018)

Development of Training Course and  
Materials for Construction and Maintenance  
Personnel Concerning Storm Water Runoff  
BMP's (FR-9210)

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Current Project: Permanent Deformation of Subgrade Soils –  
Phase 3 (1094)

Finished Projects: Effects of Rubber on Asphalt Mixes (FR-  
1009)

Permanent Deformation of Subgrade Soils  
(FR-1069)

Permanent Deformation Behavior of Subgrade  
Soils – Phase 2 (FR-1089)

Finished Theses: Investigation of the Stress Ratio Model Using  
Moist Aggregate Bases -- Independent  
Graduate Assistantship for Chadramouli  
Dondegowda and Venkat Talladivedula (FR-  
1003)

Analysis of a Contractor Pay Adjustment  
Schedule Using Simulation -- Graduate  
Assistantship for Yanjun Qiu (FR-1042)

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Finished Projects: Quantifying the Impact of Refrigerated Unit  
Failures (FR-2005)

Training Engineering Professionals for  
Management and Leadership (FR-9004)

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Finished Project: Evaluation of the Role of Driver's Knowledge  
of Who Has the Right-of-Way Contributes To  
Interstate On-Ramps Crashes (FR-2100)

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Finished Projects: Integration of a Mobile Health Care System to Deliver Primary Care to Rural Areas of Arkansas (FR-1015)

Design of Communications Network to Support Mobile Health System (FR-1035)

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Finished Project: Community Impact of Regional Transportation Infrastructure Growth (FR-1017)

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Current Projects: Acceleration Lane Design for Higher Truck Volumes (2094/3003)

Roadway Median Treatments – Phase II (2067)

Roadway Median Treatments (2055)

Finished Projects: Effects of Frontage Road Conversion (FR-2073)

Supplemental Signing for Stop Signs – Phase II (FR-2040)

Designing Horizontal Curves for Low-Speed Environments (FR-2019)

Incremental Improvements to Rural Two-Lane Highways: Rural Roadway Capacity and Congestion – Phase 2 (FR-1098)

Benefits of Video Image Processing in Vehicle Detection, and Development of an Algorithm for Strategic Camera Placement for Video Monitoring at Signalized Intersections (FR-1078)

Intersection Angle (FR-1073)

Rural Rest Area Privatization Conditions (FR-1071)

Non-Standard Stop Controlled Intersections – Phase I (FR-1059)

Geometric Design to Accommodate School Buses (FR-1054)

Rural Roadway Capacity and Congestion -- Phase I (FR-1033)

A Study of the Use of Truck Tire Beads as Drainage Pipe and Analysis of the Economics of Tire Disposal in Oklahoma: Part 1 – Culverts (FR-1025)

Work Zone Driving Public Service Instructional Video (FR-9211)

Development of a Third Work Zone Video (FR-9203)

Work Zone Traffic Control Instructional Videos – Phase 2 (FR-9014)

Uptown, Downtown, or Small Town: Designing Urban Streets that Work (FR-9012)

Work Zone Traffic Control Instructional Videos -- Phase I: “Dropoffs” and “Diversions” (FR-9003)

- Current Theses: AHTD Graduate Assistantship – John Spears (8522)
- AHTD Graduate Assistantship – Tymli Frierson (8523)
- Finished Theses: Evaluation of Automated Work Zone Information Systems – Rajesh Kumar Janarthanan (FR-2036)
- A Study of Tractor-Trailer Acceleration Behavior for Use in Acceleration Lane Design – Micah Bryant (FR-8516)
- Impacts of Roadway Designs and Environment on Multilane Highway Safety – Minh Le (FR-8512)
- The Effects of Converting Frontage Roads from Two-Way to One-Way Operation – Chris Hanning (FR-2045)
- Comparison of Crash Rates on Multilane Streets in Cities Having Divided Roadways – Andrew Brewer (FR-8511)
- Low-Speed Urban Horizontal Curves – B. Finley Vinson (FR-8505)
- Three-Lane Passing Sections – Joseph Cotton (FR-8503)
- Independent Graduate Assistance ship – Dammalpati Srinivasarao and Dhiraj Goverdhanam (FR-2059)

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Finished Project: Purchasing Transportation Services in Rural  
Communities (FR-1047)

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Finished Thesis: System Analysis for Post-Crash Fire Modeling  
-- Independent Graduate Assistantship for  
Richard Tan (FR-1007)

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Finished Projects: Developing a Viable Poultry Litter Transport  
Option for the Ozarks Region (FR-1802)

Assessment of Multimodal Transport of Baled  
Poultry Litter and Dewatered Biosolids from  
Northwest Arkansas  
(FR-7015)

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Finished Project: A GIS Enhanced Cultural Resource  
Management System (FR-1012)

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Finished Project: Training Course Development -- Concrete  
Patching (FR-9005)

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Current Project: A Prototype Remote Structural Health and  
Security Monitoring System for Bridges (3014)

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Finished Project: Geographic Information Systems for Water  
Resource Risk Management (FR-1091)

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Finished Project: Effective Human Resource Management  
Among Rural Motor Carriers (FR-1043)

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Current Project: Examining the Effects of Mixer Type and  
Temperature on the Properties of Ultra-High  
Performance (3012)

Finished Projects: Development of a Soft Ground Arrestor  
System (FR-2089)

Prestress Losses in Prestressed Bridge Girders  
Cast With Self Consolidating Concrete (FR-  
2071)

Development of an In Situ Permeability for  
Concrete Structures (FR-2053)

Finished Thesis: AHTD Graduate Assistantship for Steven  
Peyton (FR-2069)

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Current Projects: Development of Methods for Estimating  
Remaining Life of Hot-Mix Asphalt Field  
Mixes (2070)

Finished Projects: Development of Simplified Asphalt Concrete  
Stiffness/Fatigue Testing Device (FR-2014)

Development of Laboratory Wheel-Tracking Device – Phase II (FR-1104)

Development of Comprehensive Low-Volume Pavement Design Procedures (FR-1070)

Structural Design of Portland Cement Concrete Overlays for Pavements (FR-1052)

Acquisition and Evaluation of Hamburg Wheel-Tracking Device (FR-1044)

Development of Technician and Training Courses (FR-9002)

Development of Superpave Training Materials for Local Agencies (FR-9201)

Thesis Pending: Independent Graduate Assistantship for FHA project “Arkansas Pavement Study: Performance of Reflective Cracking Treatments” (8514)

Finished Theses: Investigation of the Use of the Bailey Method of Aggregate Gradation Selection for Asphalt Mix Design in Arkansas – Christopher Wald (FR-2029)

Evaluation of Measurement Techniques for the Internal Angle of Gyration for the Superpave Gyrotory Compactor – Tamara Murry (FR-2028)

State of the Practice: Pavement Design Procedures for Low-Volume Roads -- AHTD Graduate Assistantship for John Bettis (FR-1076)

Analysis of In-Situ Moisture Content Data for Arkansas Subgrades – Independent Graduate Assistantship for Shreenath Rao (FR-1041)

A Comparison of the AASHTO and Roadhog Flexible Pavement Overlay Design Procedures

-- Independent Graduate Assistantship for  
Quintin Watkins (FR-1031)

Analysis of Reflective Cracking Treatments –  
Sarah Tamayo (FR-8517)

Evaluation of a New Test method For  
Measuring Bulk Specific Gravity of Fine and  
Coarse Aggregates – Yashan Liu (FR-8507)

Comparison of the Evaluator of Rutting and  
Stripping of Asphalt with the Rotary Asphalt  
Wheel Tester – Bret Taylor (FR-8506)

Comparison of the Evaluator of Rutting and  
Stripping of Asphalt with the Rotary Asphalt  
Wheel Tester – Bret Taylor (FR-2057)

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Finished Project: Evaluation of Economic Impacts of NAFTA on  
the Transportation System/Sector of Selected  
Southern States (FR-2078)

Rural River Port Economic Impact Kit (FR-  
1087)

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Finished Project: A Study of Physical and Chemical Characteristics of Superpave Binders Containing Air Blown Asphalt (FR-2049)

Physical and Chemical Characteristics of Superpave Binders Containing Air Blown Asphalt from Two Different Feedstocks (FR-2076)

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Current Project: Performance Predication of the Strong Company's Soft Ground Arrestor System Using a Numerical Analysis (2090/3002)

Finished Thesis: Fiber Reinforced Polymer Shear Strengthening of Short Span Precast Concrete Channel Beams – Jessie Jones (FR-2046)

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Finished Project: Development and Testing of a Screening Model for Predicting Tractor-Trailer Truck Driver Retention (FR-1016)

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Finished Project: Automated Traffic Accident Data Entry (FR-1068)

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Finished Project: Human Factors Study of Driver Assistance Systems to Reduce Lane Departure and Side Collision Accidents (FR-2083)

Total System Cost/Benefit Assessment of Heavy Truck – Automobile Speed Differentials on Rural Highways (FR-2048)

Development of a Human Performance Simulation Model to Evaluate In-Vehicle Information and Control Systems in Commercial Trucking Operations (FR-2062)

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Finished Project: Seminar on State Plane Coordinate System (FR-9001 -- seminar presented)

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Operations Research & Industrial Engineering  
Dean Keeton Street at San Jacinto Street  
University of Texas at Austin  
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Finished Projects: Modeling and Analysis of Transportation  
Flows Created by E-Commerce Transactions  
(FR-2012)

Efficient Timing of Pickup and Delivery  
Assignment Decisions Through Simulation  
and Optimization (FR-2013)

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Fayetteville, AR 72701

Finished Project: An Economic Evaluation of Optimal  
Intermodal Grain Flows in Arkansas with  
Projected Effects of the North American Free  
Trade Agreement (FR-1491)

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Finished Project: Engineering Ethics Course Development (FR-  
9007 Course Developed)

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Department of Mechanical Engineering  
Louisiana State University  
Baton Rouge, LA 70803

Finished Project: Repair of Damaged Concrete Structures Using  
Prepreg Composites (FR-2033)

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Deceased  
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Finished Projects: A Feasibility Study of Truck-Barge Intermodal  
Freight Transportation (FR-1079)

Automated Shipment Routing Considering  
Transfer Costs and Shipment Characteristics  
(FR-1050)

Computer Assisted Cost Assessment of  
Intermodal Transportation Links -- Phase II  
(FR-1036)

Computer Assisted Cost Assessment of  
Intermodal Transportation Linkages (FR-  
1020)

Training Materials for Transportation Cost  
Assessment Software (FR-9006)

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Finished Projects: The Impacts of Welfare Reform on Rural  
Public Transportation Demand: Case Studies  
in the State of Oklahoma (FR-1082)

Establishing Priorities for Rural Transit System  
Subsidies (FR-1045)

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Department of Industrial Engineering  
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Current Project: Improving Forced Transfer and Special Needs  
Busing in Rural Public Schools (3011)

Finished Projects: Routing Models for Rural Transportation  
Networks With Time-Varying Constraints (FR-  
2086)

Integrated Analysis of Transportation and  
Inventory in Intermodal Distribution Networks  
(FR-2041)

Impact of Wireless Data Systems on the  
Transportation Systems of the Future (FR-  
2023)

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Department of Electrical Engineering  
3217 Bell Engineering Center  
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Finished Projects: Development of Intermodal Container Load  
Status and Security Monitoring System (FR-  
2084)

Highway Collision Warning Technology:  
Determination of Criteria for Detecting and  
Logging Hazardous Events in Tractor-Trailer  
Safety and Training Programs (FR-2063)

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Finished Project: An Examination of the Effect of  
Transportation Costs on Grain Basis Levels in  
Arkansas (FR-1798)

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Finished Project: A Nationwide High-Speed Rail Network for  
Freight (FR-2087/3001)

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Associate Professor  
Department of Political Science  
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Finished Project: Community Impact of Regional Transportation  
Infrastructure: Revisited After Completion of  
Airport and Major Highway (FR-2034)

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Associate Professor  
Department of Industrial Engineering  
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Current Projects: Emergency Response via Inland Waterways  
(3008)

Rural Transportation Emergency Preparedness  
Plans (2091)

Finished Projects: WebShipCost – Quantifying Risk in Intermodal  
Transportation (FR-2035)

Economic Evaluation of the Impact of  
Waterways on the State of Arkansas – Phase II  
(FR-9208)

Homeland Security for Rural Transportation  
Networks (FR-2085)

Ancillary Benefits of the Ouachita River  
Navigation System (FR-2082)

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Finished Project: A Model-Based Risk Map for Roadway Traffic  
Crashes (FR-2098/3005)

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Communication Disorders  
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Finished Project: A model for Predicting Tractor-Trailer Truck  
Drivers' Job Performance Related to Highway  
Safety (FR-2043)

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Finished Project: Determining Optimal Trailer Duty as a  
Function of Use and Age (FR-2017)

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Department of Marketing and Logistics  
355 Walton College of Business  
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Finished Projects: Effects of Motor Carrier Deregulation on Small  
Rural Communities (FR-1019)

Demand for Intermodal Transportation in  
Arkansas (FR-1018)

Assessing Transportation Contributions to the  
Economic Performance of Developing  
Countries -- Independent Graduate  
Assistantship for Vitaly Brazkin and Kyle  
Alexander (FR-1048)

MSTM Curriculum Development (FR-9010)

Economic Impact of Railroad Abandonments  
in Arkansas (FR-1011)

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Finished Project: A Geographic Information System to Predict  
Soil Erosion Potential in Rural Transportation  
Construction Projects (FR-1005)

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Little Rock, AR 72204

Current Projects: Solar Powered Lighting for Overhead Highway Signs (2096/3007)

Finished Project: Assisted Night Vision for Motorists in Highway Construction Zones (FR-2050)

Assisted Night Vision for Motorist in Highway Construction Zones – Phase II – Field Testing and Assessment (FR-2064)

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4190 Bell Engineering Center  
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Finished Project: Development of Standard Preconstructed Timber Bridge Sections (FR-1057)

Finished Theses: Mechanical Properties and Fatigue Characteristics of Glass Fiber Reinforced Resin Rods -- AHTD Independent Graduate Assistantship for Jennifer Balogh Williams (FR-1027)

Comparison of FRP Reinforced Concrete Bridge Decks to Steel Reinforced Concrete Bridge Decks - Fellowship for Kevin White (FR-8502)

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Finished Project: Modeling, Assessing and Managing Risk in  
Transportation Systems (FR-2061)

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Finished Project: Transportation Infrastructure and Rural  
Economic Growth (FR-1734)

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Department of Industrial Engineering  
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Finished Projects: Integration of Geographical Information  
Systems and Logistics Planning Methods for  
Arkansas Rural Transportation Emergency  
Planning (FR-2088)

WebShipCost – A Geographical Information  
System for Waterway Utilization (FR-2047)

WebShipCost – Intermodal Transportation  
Linkage Cost Assessment Via the WWW (FR-  
2024)

On-Line Benchmarking Database for  
Transportation Providers (FR-2015)

Training and Course Materials for  
Transportation Applications of GIS (FR-9209)

Finished Thesis: Evaluating Forecasting Methods for Demand  
Based Managed Retail Supply Chains – Julie  
Watson (FR-8504)

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2118 Fielder Hall  
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Manhattan, KS 66506-2905

Finished Projects: Further Study of Roundabouts (FR-2016)

Quick Response Community Planning (FR-  
2001)

Modeling Traffic Flows and Conflicts at  
Roundabouts (FR-1099)

Update and Modification of the Kansas Low-  
Volume Roads Handbook and the Handbook  
of Traffic Engineering Practices for Small  
Cities (FR-9206)

A Safety Analysis of Driver Reaction to  
Alternative Traffic Control Devices at Rail-  
Highway Grade Crossings (FR-2079)

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2037 Durland Hall  
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Finished Projects: Life Cycle Economic Comparison of Common  
Sign Post Materials and Types (FR-2039)

Object Markers at Narrow Bridges (FR-1083)

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345 Old Main  
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Finished Project: Cost Efficient Management Tools for  
Assessing Cultural Resources (FR-2044)

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South Dakota State University  
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Finished Projects: Supplemental Materials for Use with  
Educational Videotapes (FR-9202)

Creation of Educational/Recruitment  
Videotapes for K-9 Students: "Check It Out",  
"Make It Happen", "Back to the Future, Please"  
(FR-9009)

Finished Thesis: Properties and Behavior of a High  
Performance Concrete Containing Type I  
Cement -- AHTD Independent Graduate  
Assistantship for Craig Johnson (FR-1049)

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David Schroeder . . . . . 479-575-4256  
Departmental Chairperson  
Department of Psychology  
216 Memorial Hall  
University of Arkansas  
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Finished Thesis: Transportation and Increasing Access to Rural  
Mental Health Service -- Independent  
Graduate Assistantship for Vanessa Nehus-  
Huber (FR-1013)

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Departmental Chairperson  
Department of Sociology and Criminal Justice  
211 Old Main  
University of Arkansas  
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Finished Thesis: Study on Growth in Northwest Arkansas and  
Study of the Transportation Needs of Citizens  
Requiring Psychological Services --  
Independent Graduate Assistantship for Lynn  
Lister (FR-1001)

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Professor  
Department of Civil Engineering  
4190 Bell Engineering Center  
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Current Project: Potential Applications of Nano technology for  
Improved Performance of Asphalt Pavements  
(2095/3004)

Finished Project: Aeroelastic Analysis of Bridge Girder Section  
Using Computer Modeling (FR-1095)

Finished Theses: Validation of Aeroelastic Finite Element Program for Two-Dimensional Flow Past Suspended Bridges Using Moving Grids – Weazl Gazel (FR-2021)

Aeroelastic Analysis of Bridge Girder Section Using Computer Modeling– Suresh Govindaswamy (FR-2010)

Recent Developments of the Flexible Pavement Analysis Program -- Graduate Assistantship for Anousone Arounpradith (FR-1004)

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Department of Computer Science and Computer Engineering  
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Finished Project: Computer Model for Estimating Field Operation Manpower (FR-1026)

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Finished Projects: Benefit Cost-Analysis of Constructing a Rail Connection and Intermodal Facility at the Mississippi River Port of Yellow Bend in Arkansas (FR-1032)

Waterside Industrial Sites on the Ouachita River in Arkansas (FR-1056)

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204 Mechanical Engineering Building  
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Finished Project: Development of Portable Holographic Interferometric Equipment for Inspecting Bolted and Riveted Connections in Bridges (FR-1096)

Finished Thesis: Examining the Usage of Holography to Determine the Stresses of Bolts In Existing Bridges – Sita Dura Muhammad (FR-2011)

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Finished Projects: Optimization of Chassis Movements in Intermodal Transportation Systems (FR-1021)

Dynamic Routing for City Pickup and Delivery for LTL Truck Operations (FR-1065)

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Department of Industrial and Systems Engineering  
250 Durham Hall (0118)  
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Blacksburg, VA 24061

Finished Projects: Efficient Dispatching in a Terminal City Network (FR-2004)

Finding Synergy in Intermodal Operations  
with Truck and Rail (FR-1101)

Intermodal Profitability Analysis in LTL and  
Truckload Trucking (FR-1081)

New Marketing Paradigms for Truckload  
Trucking (FR-1080)

Simulation of Railway Component of  
Intermodal Transit (FR-1077)

Development and Analysis of Efficient  
Delivery Lanes (FR-1061)

GIS-Based Freight Density and Capacity  
Modeling (FR-1060)

LTL Terminal Scheduling and Trailer Pool  
Models (FR-1051)

Development of a General Location Model to  
Locate Break Bulk Terminals for LTL Trucking  
Operations (FR-1037)

Hub and Spoke Networks in Truckload  
Trucking: Sensitivity Analysis and Extended  
Testing (FR-1022)

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Finished Projects: Permeability of Base Courses (FR-1010)

Slope Reliability (FR-1014)

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College Station, TX 77843-3135

Finished Projects: A Study of Rural Transit Operations in the  
Arkansas Delta (FR-2081)

Freeway Management Deployment Plan and  
Regional Architectural Development (FR-  
2068)

Evaluation of Automated Work Zone  
Information Systems (FR-2025)

Development of a Strategic Plan for Statewide  
Deployment of Intelligent Transportation  
Systems in Arkansas (FR-2022)

Regional Mobility Plan: Development of  
Technical Scope of Services (FR-2009)

The Northwest Arkansas Transit Assessment  
Study (FR-1103)

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Finished Project: The Role of Transportation in Service Access  
for Rural Elderly (FR-1523)

Finished Thesis: The Role of Transportation in Service Access  
for Rural Elderly -- Independent Graduate  
Assistantship for Kathryn Coleman (FR-1008)

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Finished Project: Measurement of Antistrip Additives in  
Asphalts and Pavements (FR-1055)

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4190 Bell Engineering Center  
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Finished Projects: Automated Inventory and Analysis of Highway  
Assets – Phase II (FR-2097)

Networked Sensor System for Automated Data  
Collection and Analysis (FR-2077)

Applicability of Microelectronic and  
Mechanical Systems (MEMS) for  
Transportation Infrastructure Management  
(FR-2056)

An Infrastructure for the Next-Generation  
Highway Data Vehicle (FR-1093)

A 3D Terrain Visualization Database for  
Highway Information Management (FR-1092)

Investigation of Image Archiving for Pavement  
Surface Distress Survey (FR-1072)

Advanced Planning Surveys Using Automatic License Plate Reader (FR-1053 -- Discontinued Report)

Needs for the Establishment of Arkansas-Intergraph Transportation Laboratory (FR-1046 -- lab in operation)

Development of a Full Digital and Networkable Multimedia Based Highway Information System -- Phase I (FR-1040)

Application and Advanced Development of the Next-Generation Highway Data Vehicle (FR-9205)

Network Level Crack Survey with the Automated Real-Time Distress Analyzer - Kofi Addo (FR-8508)

Automated Inventory and Analysis of Highway Assets (FR-2065)

Automation of Pavement Surface Distress Survey Through Parallel Processing (FR-2008)

Automated Survey and Visual Database Development for Airport and Local Highway Pavements (FR-2042)

Implementation of MMHIS at the Intergraph Lab (FR-9013)

Finished Theses: Fuzzy Set-Based and Performance-Oriented Pavement Network Optimization System -- Graduate Assistantship for Fengxian Liu (FR-1039)

Multi-media Database Development for a Highway Information System -- Independent Graduate Assistantship for Xuyang Li (FR-1038)

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Finished Project: Ingredients in Planning Successful Rural  
Transportation Services for Welfare Reform  
(FR-2002)

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Finished Project: Development of Roadway Construction  
Control Certification Program (FR-9204)

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Finished Projects: Non-Nuclear Methods for HMA Density  
Measurements (FR-2075)

Surface Friction Measurements of Fine-  
Graded Asphalt Mixes (FR-2066)

A Comprehensive Study of Field Permeability  
Using the Vacuum Permeameter (FR-2054)

Development of 4.75 mm Superpave  
Mixes (FR-2030)

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Finished Project: Automated Aggregate Shape Analysis and  
Rutting/Stripping Performance (FR-1067)

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Finished Projects: Economic Evaluation of the Impact of  
Waterways on the State of Arkansas (FR-  
9207)

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Finished Projects: Developing a Course Entitled “Enabling  
Technologies in ITS” (FR-9015)

Research and Develop a Course on Intelligent  
Vehicle Highway Systems (FR-9011)