

DIRECTORY
OF
CENTER PERSONNEL

FISCAL YEAR 2010

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

Bonnie Boardman 817-272-3220
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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
Vibrothesis (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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Finished Project: A Cost-Driven Policy Approach for
Development of On-Street and Off-Street
Bicycle, Multi-Use and Single-Use Paths and
Related Facilities (FR-3010)

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: Roadway Median Treatments – Phase II (2067)
Roadway Median Treatments (2055)

Finished Projects: Acceleration Lane Design for Higher Truck Volumes (FR-2094/3003)
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
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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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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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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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Finished Project: Repair of Damaged Concrete Structures Using
Prepreg Composites (FR-2033)

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

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Current Projects: Emergency Response via Inland Waterways
(3008)

Finished Projects: Rural Transportation Emergency Preparedness
Plans (FR-2091)

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)

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: 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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355 Walton College of Business
University of Arkansas
Fayetteville, AR 72701

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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University of Arkansas at Little Rock
Little Rock, AR 72204

Finished Projects: Solar Powered Lighting for Overhead Highway
Signs (FR-2096/3007)

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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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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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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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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Kansas State University
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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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Finished Project: Cost Efficient Management Tools for
Assessing Cultural Resources (FR-2044)

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Department of Civil and Environmental Engineering
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Brookings, SC 57007

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)

David Schroeder 479-575-4256
Departmental Chairperson
Department of Psychology
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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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Department of Sociology and Criminal Justice
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University of Arkansas
Fayetteville, AR 72701

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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Finished Projects: Potential Applications of Nano technology for Improved Performance of Asphalt Pavements (FR-2095/3004)

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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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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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)

Hamdy Taha, PE 479-575-6026
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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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Charles O. Gordon Professor and Head

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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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Texas A&M University System
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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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)
