

Progress of Active Research Projects through December 31 – Calendar Year 2010

State Job Number	Project Title	Investigator	Contractor	Subject Matter Expert	Total Cost	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
134396	Evaluation of Geotextile Fabric in Undercut on MSE Wall Stability	Lutful Khan	Cleveland State University	Peter Narsavage	\$19,849.25									99%				
134415	Prediction of Pile Set-up for Ohio Soils	Lutful Khan	Cleveland State University	Jawdat Siddiqi	\$19,849.25									91%				
134515	Verification of Rut Depth Collected with the INO Laser Rut Measurement System (LRMS)	Shad Sargand	Ohio University	Dan Radanovich	\$19,999.65									33%				
134465	Study of Bankfull Culvert Design Effectiveness	Mark Tumeo	Cleveland State University	Matt Raymond	\$19,999.89									85%				
134476	Mechanical Properties of Warm Mix Asphalts Prepared Using Formed Asphalt Binders	Ala Abbas	University of Akron	David Powers	\$20,000.00									85%				
134301	Sonar Imaging of Flooded Subsurface Voids	Patrick Fox	The Ohio State University	Kirk Beach	\$38,294.00									99%				
134411	Evaluation of Fiber Reinforced Composite Dowel Bars and Stainless Steel Dowel Bars	Roger Larson	Applied Pavement Technology	Roger Green	\$54,000.00									74%				
134326	Performance of GEOID03 for Height Conversion in Ohio	Dorota Brzezinska	The Ohio State University	John Ray	\$70,508.52									100%				
134557	Improved Characterization of Truck Traffic Volumes and Axle Loads for Mechanistic Empirical Pavement Design	Ala Abbas	University of Akron	Roger Green	\$74,773.94										5%			
134433	Optimum Loop Placement that Balances Operational Efficiency and Dilemma Zone Protection	Heng Wei	University of Cincinnati	Kevin Duemmel	\$78,060.41									100%				
134374	Field Monitoring of Scour Critical Bridges: A Pilot Study of Time Domain Reflectometry For Real-Time Automatic Scour Monitoring Systems	Bill Yu	Case Western Reserve University	Bill Krouse	\$84,079.00									100%				
134516	Validating the Performance of Vehicle Classification Stations	Benjamin Coifman	The Ohio State University	Lindsey Pflum	\$84,949.00									28%				
134431	Investigate Feasibility of Using Ground Penetrating Radar in QC-QA of Rubblization Projects	Arudi Rajagopal	Infrastructure Management & Engineering, Inc.	Roger Green	\$87,102.53									90%				
134432	Develop Traffic Counter Bench Tester with 8-Lane Testing Capacity	Jeff McKnight	Athens Technical Specialists, Inc.	Dave Stewart	\$89,764.21									100%				
134416	Statistical Validation of Speeds and Travel Time Provided by a Data Service Vendor	Bill Schneider	University of Akron	George Saylor	\$95,497.80									100%				
437046	Determination of Mechanical Properties of Materials used in the WAY-30 Test Pavements	Sang-Soo Kim	Ohio University	Roger Green	\$106,882.00									100%				
134556	Green Noise Wall Construction and Evaluation	Ala Abbas	University of Akron	Noel Alcala	\$106,997.90										19%			
134330	Phase 2 - A Comparison of Optical Gradation Devices to Current Test Methods	Arudi Rajagopal	Infrastructure Management & Engineering, Inc.	Jeff Wigdahl	\$114,120.74									90%				
134375	Identification Evaluation of Pavement-Bridge Interface Ride Quality Improvement and Corrective Strategies	Brent Phares	Iowa State University	Brian Schleppli	\$120,316.34									85%				
134489	Ice Prevention or Removal on the Veterans Glass City Skyway Cables	Douglas Nims	University of Toledo	Mike Gramza	\$131,759.66									98%				
134559	Development of Opportunity Zones Utilizing Transportation Assets	Gregory Washington	The Ohio State University	Brandon Perkins	\$132,933.90										.04%			
134481	An Efficient and Accurate Genetic Algorithm for Backcalculation of Flexible Pavement Layer Moduli	Ernie Pan	University of Akron	Roger Green	\$157,382.00									34%				
134299	Effectiveness of Chip Sealing and Microsurfacing on Pavement Serviceability and Life	Arudi Rajagopal	Infrastructure Management & Engineering, Inc.	Roger Green	\$175,891.61									100%				
134345	Evaluation of Rubblization Projects in Ohio	Arudi Rajagopal	Infrastructure Management & Engineering, Inc.	Roger Green	\$179,393.66									90%				
134368	Sensitivity to Four-Step Versus Activity Based Models to Transportation System Changes	Chandra Bhat	University of Texas at Austin	Greg Gaiamo	\$183,150.00									99%				
134394	Development of a TL-3 Deep Beam Tubular Backup Bridge Rail	Akram Abu-Odeh	Texas A&M University	Sean Meddles	\$184,798.00									96%				
134387	Summer Ecology of Indiana Bats in Ohio	Stan Gehrt	The Ohio State University	Matt Raymond	\$192,009.00									90%				

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134464	Bioasphalt from Urban Yard Waste Carbonization	Aaron Jennings	Case Western Reserve University	David Powers	\$199,000.00										99%			
134170	Long Term Monitoring of Moisture Under Pavements	William Wolfe	The Ohio State University	Roger Green	\$220,236.00										100%			
134364	Crack Sealing: Database Analysis and Effects on Pavement Serviceability and Life	Arudi Rajagopal	Infrastructure Management & Engineering, Inc.	Roger Green	\$224,689.45										90%			
134517	Development of a Flood-Warning System and Flood-Indundation Mapping in Licking County, Ohio	Chad Ostheimer	U.S. Geological Survey	Bill Krouse	\$236,000.00										22%			
134258	Development of Degradation Rates for Various Ohio Bridge Types	Arthur Helmicki	University of Cincinnati	Amjad Waheed	\$243,104.00										90%			
426835	Veteran's Glass City Skyway Solar Array Field Demonstration	Richard Martinko	University of Toledo	Mike Gramza	\$249,337.00										41%			
134267	Forces on Wingwalls from Thermal Expansion of Skewed Semi-Integral Bridges	Eric Steinberg	Ohio University	Jawdat Siddiqi	\$274,272.00										100%			
148110	Evaluation of the Effectiveness of Strategic Initiative 9 Pilot Bridge Concepts	Richard Miller	University of Cincinnati	Scott Seeley	\$277,313.00										100%			
134413	Long Term Validation of an Accelerated Polishing Test Procedure for HMA Pavements	Robert Liang	University of Akron	David Powers	\$277,454.00										36%			
134169	Bio-Engineering for Land Stabilization	Patrick Fox	The Ohio State University	Kirk Beach	\$323,548.00										100%			
134363	Benefit Cost Models to Support PMS Decisions	Eddie Chou	University of Toledo	Andrew Williams	\$347,228.80										60%			
134280	Forensic Investigation of AC and PCC Pavements with Extended Service Life	Bill Edwards	Ohio University	Roger Green	\$404,666.45										100%			
134349	Vegetated Bio-Filter For Post Construction Storm Water Management for Linear Transportation Projects	Gayle Mitchell	Ohio University	Rob Lang	\$433,922.06										100%			
134325	Rock Slope Design Criteria	Abdul Shakoor	Kent State University	Steve Taliaferro	\$441,324.60										100%			
134348	Verification and Calibration of the Design Methods for Rock Socketed Drilled Shafts for Lateral Loads	Jamal Nusairat	E.L. Robinson Engineering of Ohio, Co.	Jawdat Siddiqi	\$449,745.56										96%			
426354	Instrumentation of the Maumee River Crossing	Arthur Helmicki	University of Cincinnati	Tim Keller	\$459,766.00										98%			
134384	Exfiltration Trenches for Post Construction Storm Water Management for Linear Transportation Projects	Gayle Mitchell	Ohio University	Mike Wawszkiewicz	\$533,032.77										67%			
134381	Structural Evaluation of LIC-310-0396 Box Beams with Advanced Strand Deterioration	Eric Steinberg	Ohio University	Mike Loeffler	\$556,429.00										91%			
134238	Field Instrumentation, Monitoring of Drilled Shafts for Landslide Stabilization and Development of Pertinent Design Methods	Robert Liang	University of Akron	Chris Merklin	\$613,930.40										100%			
134254	Development of Geotechnical Data Schema in Transportation	Marc Hoit	University of Florida	Kirk Beach	\$644,639.00										92%			
134371	Evaluation of Cone Penetrometer Testing (CPT) for use with Transportation Projects	Carolyn Merry	The Ohio State University	Kirk Beach	\$683,303.53										90%			
148050	Instrumentation of the US Grant Bridge for Monitoring of Fabrication, Erection, In-Service Behavior, and to Support Management, Maintenance, and Inspection	Arthur Helmicki	University of Cincinnati	Greg Baird	\$795,940.00										89%			
134141	Operation & Maintenance of a Statewide Crest-Stage Stream Gauging Network in Ohio	Bernard Sroka	Ohio Department of Natural Resources	Bill Krouse	\$1,106,056.00										41%			
134421	GPS-Based Household Interview Survey for the Cincinnati Ohio Region	Laurie Wargelin	Abt SRBI	Greg Giaimo	\$1,299,918.62										82%			
134414	Rapid Orthophoto Development System	Charles Toth	The Ohio State University	John Ray	\$1,492,491.54										62%			
134287	Monitoring and Modeling of Pavement Response and Performance	Shad Sargand	Ohio University	Roger Green	\$1,584,958.06										78%			

