

## 2016 UTRAC Selected Research Projects Pending FHWA Approval

### Group 1 - Materials and Pavements

Number	Name	Source	Research PM
16.01.01	Field Data for Low Temperature Cracking	UU	David Stevens
16.01.03	SemiCircular Bending Test Phase III Existing Mix Validation	CMETG	David Stevens
16.01.08	Review and Specification for Shrinkage Cracks of Bridge Decks Phase II	UU	Tom Hales
16.01.11	Feasibility of Instrumenting and Monitoring Designated Roadway Sections in Utah	UDOT	David Stevens

### Group 2 - Maintenance

Number	Name	Source	Research PM
16.02.03	Recommended Snow Plow Blade Use due to Various Factors	UDOT	David Stevens
16.02.04	Filter Systems to Produce Industrial Use Water for UDOT Maintenance Stations	UDOT	Jason Richins
16.02.05	A Data Fusion Approach for Extracting Highway Maintenance Features	USU	Tom Hales
16.02.07	Snow Plow Equipment Lighting - Best Practice Recommendation	UDOT	Jason Richins

### Group 3 - Traffic Management & Safety

Number	Name	Source	Research PM
16.03.02	Developing a Method to Identify Horizontal Curves Segments with Worst Crash Histories Using the HAF Algorithm	BYU	Jason Richins
16.03.04	Analysis of Left-turn Warrants in Utah	BYU	Jason Richins
16.03.05	Data Based Testing & Decision Process for Traffic Signal Steel Replacement	UDOT	Jason Richins
16.03.08	Index of Model Ordinances Promoting Pedestrian Safety	Active Planning	Tom Hales
16.03.09	Pedestrian Safety Toolbox for Elected Officials	Active Planning	Tom Hales
16.03.10	Risk Assessment of Non-Motorized Access to Rail Transit Stations	Active Planning	Tom Hales
16.03.15	Traffic Ticker	Purdue	David Stevens
16.03.16	Streamlined Traffic Impact Studies for Conditional Access Permits	UDOT	David Stevens

### Group 4 - Preconstruction

Number	Name	Source	Research PM
16.04.01	Project Management in Transportation Engineering - National Best Practices	UDOT	Tom Hales

**Group 5 - Planning**

Number	Name	Source	Research PM
16.05.02	Trip and Parking Generation by TODs Phase II	UU	Kevin Nichol
16.05.03	Does Compact Development Increase or Reduce Traffic Congestion?	UU	Kevin Nichol
16.05.04	Scenario Planning for Automated Vehicles	UU	Kevin Nichol

**Group 6 - Public Transportation**

Number	Name	Source	Research PM
16.06.01	Strategic Planning and Design for Electric Bus Systems	UU	UTA
16.06.04	Understanding Transit Ridership: Using Regression Analysis to Generate Ridership Forecasts for Better Performance Measurement of Transit Agencies	Torrey Lyons	UTA
16.06.05	Quantifying Effects of Spatial Coverage and Temporal Frequency of Transit Service on Ridership	UU	Kevin Nichol
16.06.09	Return on Investment for Bus Stop Investments	UU	Kevin Nichol
16.06.11	The Effect of Air Quality on Transit Ridership Patterns and Associated Vehicle Emissions	UU	UTA