

<b>UTC Project Information</b>	
Project Title	Evaluation of Motorcyclists and Bikers' Safety on Wet Pavement Markings
University	Washington State University
Principal Investigator	Somayeh Nassiri
PI Contact Information	snassiri@wsu.edu
Funding Source(s) and Amounts Provided (by each agency or organization)	University of Washington PacTrans \$40,000 Washington State University \$40,000
Total Project Cost	\$80,000
Agency ID or Contract Number	DTRT13-G-UTC40
Start and End Dates	December 16, 2016 – January 31, 2018
Brief Description of Research Project	<p>Pavement markings are critical in guiding the road users in properly using traffic lanes, however can lead to catastrophic crashes for motorcyclists and bikers when wet or icy. The primary objective of this study is to develop a safety evaluation specification for new and degraded pavement markings under dry, wet &amp; icy conditions. The project ties closely with PacTrans' theme of safety and data driven solutions for safe transport. A few highway agencies use traffic signs to provide warning to motorcyclists in advance of hazards such as curves, grooved pavements, rough surfaces, construction zones, discontinuity on the road and so forth. However, the issue of slippery pavement markings still requires more attention, since our search of the literature shows that no objective testing protocol is currently available to evaluate the safety (slip resistance) of pavement markings, especially in adverse weather conditions (rain, and ice).</p>

<p>Describe Implementation of Research Outcomes (or why not implemented)</p> <p>Place Any Photos Here</p>	<p>This was only a preliminary study, so the findings provided seed data for more testing and evaluation. The project findings are not at the implementation stage yet.</p> <p>See the example photos below. More photos available in the project final report.</p>
	<div data-bbox="560 588 966 1123" data-label="Image"> </div> <p data-bbox="560 1102 1356 1197">top: quantitative method of evaluation by the British Pendulum Tester and bottom: qualitative method of evaluation by road user.</p> <div data-bbox="560 1197 1193 1669" data-label="Image"> </div>
<p>Impacts/Benefits of Implementation (actual, or anticipated)</p>	<p>Anticipated impacts: provide a practical yet quantitative and objective method of evaluation for state DOT's and other project owners to evaluate the friction and skid resistance of various pavement markings especially in adverse weather conditions.</p>

Web Links

- Reports
- Project Website