Please check this page for updates and additional information on the poster presentations.

**September 28, 2017 VTrans Research Symposium and STIC Annual Meeting Poster Presentations**

**Planning and Safety – Planning and Safety (Fifth Floor Board Room—513)**

*Implementation of Dedicated Short Range Communication (DSRC) and Automated Traffic Signal Performance Measures (ATSPMs) along an Urban Traffic Signal Corridor: Real Time Traffic Information through DSRC Deployment (Pending Award)*

Presenter:  Derek Lyman, VTrans

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/2017%20STIC%20Fact%20Sheet%20DSRC-ATSPM.PDF)

*SK1 Data Mapping Framework*

Presenter:  Stephen Smith, VTrans

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/2017%20STIC%20Fact%20Sheet%20-%20SK1%20Data%20Mapping.pptx)       [Presentation](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/SK1%20Presentation.pptx)

*Conduct of Road Safety Audit Reviews at High Crash Locations*

Presenter:  Mario Dupigny-Giroux, VTrans

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/2017%20STIC%20Fact%20Sheet%20%20Road%20Safety%20Audits.pptx)

*Automated Speed Enforcement in Vermont*

Presenter:  Mario Dupigny-Giroux, VTrans

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/2017%20STIC%20Fact%20Sheet%20ASE.pptx)

*Examining the Potential Impacts of Maintenance Investment and Capital Reinvestment in Vermont’s Roadway Infrastructure Network*

Presenter: Karen Sentoff, UVM

Fact Sheet [Final Report](http://vtrans.vermont.gov/sites/aot/files/highway/documents/materialsandresearch/completedprojects/Disinvestment%20Final%20Report%20%28VTrans%20Approved%29.pdf)

*VTrans Employee Retention Study and Knowledge Management Pilot*

Presenters: Carol Vallet and Jennifer Jewiss, UVM

Fact Sheet

*Case Studies of Using Unmanned Aircraft Systems to Improve Safety and Increase Efficiency*

Researcher: Jarlath O'Neil-Dunne, UVM

Fact Sheet

*All in One Survey-Vermont Travel*

Researcher: Jon Dowds, Lisa Aultman-Hall, UVM

Fact Sheet

*EDC 3:  Smarter Work Zones*

Presenter:  Nancy Avery, VTrans

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/2017%20STIC%20Fact%20Sheet%20EDC3%20Smarter%20Work%20Zone.pptx)

**Structures - Structures (Fourth Floor Board Room—413)**

*SHRP2 C19:  Expediting Project Delivery*

Presenter:  Laura Stone, VTrans

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/2017%20STIC%20Fact%20Sheet%20SHRP2%20C19.pptx)     Final Report

*Ultra High Performance Concrete (UHPC)*

Presenter:  Rob Young, VTrans

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/2017%20STIC%20Fact%20Sheet%20UHPC.pptx)

*SHRP 2 R15B Identifying and Managing Utility Conflicts*

Presenter:  Shaun Corbett, VTrans

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/SHRP2%20R15B%20Fact%20Sheet.pptx)        Final Report

*e-Construction at VTrans*

Presenter:  Chris Williams, VTrans

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/2017%20STIC%20Fact%20Sheet%20on%20e-Construction.pptx)

*Prediction and Mitigation of Scour and Scour Damage to Vermont Bridges*

Researcher: Mandar Dewoolkar, UVM

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/2017%20RS%20Fact%20Sheet_Scour%2009-01-17.pptx)       [Final Report](http://www.uvm.edu/~transctr/research/trc_reports/UVM-TRC-15-002.pdf)

*Using Remote Data Collection to Identify Bridges and Culverts Susceptible to Blockage During Flooding Events*

Researcher: Jim Sullivan, UVM

Fact Sheet      [Final](http://www.uvm.edu/~transctr/research/trc_reports/UVM-TRC-16-003.pdf) Report

*Quantifying the Vulnerability of Vermont Bridges to Seismic Loading*

Researcher: Mandar Dewoolkar, Eric Hernandez, John Lens, UVM

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/2017%20RS%20Fact%20Sheet_SeismicVulnerabilityBridges%2009-01-17.pptx)

*The changing risk of extreme event impacts on Vermont transportation infrastructure*

Researcher: Arne Bomblies

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/2017%20RS%20Fact%20Sheet%20Extreme%20Events.pptx)

*Collaborative Hydraulics:  Advancing to the Next Generation of Engineering (CHANGE)*

Presenter:  Nick Wark, VTrans

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/CHANGE_2017%20STIC%20Fact%20Sheet.pptx)

**Materials/Pavements - Materials/Pavements (Third Floor Board Room—313)**

*VTrans Recycled Materials Activities*

Presenter:  James “Buzz” Surwilo, ANR

Fact Sheet

*Pavement Life*

Presenter:  Emily Parkany, VTrans

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/Pavement%20Life%20Fact%20Sheet.pdf)       2017 Reports

*Experimental Features*

Presenter:  Emily Parkany, VTrans

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/Experimental%20Features%20Fact%20Sheet.pdf)

*Freeze-Thaw Durability Of Pervious Concrete With Salt Exposure*

Presenter:  Adam Sevi, Norwich University; Edwin Smeckpeper, Norwich University

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/2017%20RS%20Fact%20Sheet_Pervious%20Concrete%2009-01-17.pptx)        Final Report

*SHRP 2 R07:  Full-Depth Reclamation Performance Related Specification*

Presenter:  Mark Woolaver, VTrans

[Fact Sheet](https://outside.vermont.gov/agency/VTRANS/external/docs/ppaid/research/2017%20STIC%20Fact%20Sheet%20Template.pptx)        Final Report

*Suitability of Intelligent Compaction for Relatively Smaller-Scale Projects in Vermont*

Researcher: Ehsan Ghazanfari, UVM

Fact Sheet        [Final Report](http://vtrans.vermont.gov/sites/aot/files/highway/documents/materialsandresearch/completedprojects/Intelligent%20Compaction_Final%20Report%20%28VTrans%20Approved%29.pdf)

*Freeze-thaw and salt durability of pervious concrete*

Researcher: Mandar Dewoolkar

Fact Sheet        [Final Report](http://vtrans.vermont.gov/sites/aot/files/highway/documents/materialsandresearch/completedprojects/VTRANS%20Project%20730%20Pervious%20Concrete%20Report%20Final%2011-22-16%20%28uvm%20edited%29.pdf)

*High Speed Ground Penetrating Radar for Road Pavement and Bridge Structural Inspection and Maintenance*

Researcher: Tian Xia

Fact Sheet        [Final Report](file:///C%3A/Users/jadowds/Desktop/trans.vermont.gov/sitehttp%3A/vtrans.vermont.gov/sites/aot/files/highway/documents/materialsandresearch/completedprojects/VTRANS%20Project%20730%20Pervious%20C)

**Environmental/Snow and Ice - (Catamount—215)**

*Reducing Wildlife Mortality on Roads in Vermont: Determining Relationships between structures attributes and wildlife movement frequency through bridges and culverts to improve conservation investments*

Presenter: Paul Marangelo

Fact Sheet       Final Report

*Investigation of Northern Long Eared Bat Roosting Sites on Bridges*

Researcher: Scott Civjan, UMass Amherst

Fact Sheet      Final Report

*Effective Establishment of Native Grasses on Roadsides in New England*

Researcher: Julia Kuzovkina, UConn

Fact Sheet        [Final Report](http://plantscience.uconn.edu/People/Faculty/Kuzovkina_13_553212770.pdf)

*Identifying Best Practices for Snowplow Route Optimization*

Researcher: Jon Dowds, Jim Sullivan, UVM

Fact Sheet        [Final Report](http://clearroads.org/wp-content/uploads/dlm_uploads/FR_CR.14-07_Final.pdf)

*Quantifying the Impact New Capital Projects will have on Roadway Snow and Ice Control Operations*

Researcher: Jim Sullivan, UVM

Fact Sheet        Final Report