**2017 VTrans Research Symposium &**

**STIC Annual Meeting**

**Thursday, September 28 at National Life in Montpelier, Montpelier Room, Davis Building (026) , 8am-1pm**

The inaugural VTrans Research Symposium will be hosted alongside the 4th Annual Vermont State Transportation Innovation Council (STIC) meetings. Plan to join us for presentations and discussions around recent research efforts and innovation projects. Research and program posters will be on display in National Life Rooms 513, 413, 313, and 215 from 8am-1pm, Thursday, September 28. Presentations will be in the Montpelier Room in the basement of National Life, presentations include:

Schedule:

8:30-9:00 **Welcome** *to the Research Symposium and STIC Annual Meeting Day; Information about the State Transportation Innovation Council (STIC)*

9:00-9:30  **VTrans and Every Day Counts Initiatives**:  *What has been institutionalized and what are we emphasizing now?*

9:30-9:45  **Performance and Process at VTrans**

9:45-10:45  **View Research and Innovation Posters**:  *Fifth, Fourth, Third Floor Board Rooms (513, 413, 313), Catamount (215).  Poster presenters will be available to answer questions about the projects.*

* Planning and Safety (Fifth Floor Board Room—513)
* Structures (Fourth Floor Board Room—413)
* Materials/Pavements (Third Floor Board Room—313)
* Environmental/Snow and Ice Control (Catamount—215)

10:45-11:15  **Research Lifecycle**:  *Idea, Proposal, Project, Technical Transfer, Implementation*

11:15-11:30 **Impacts of Research/Research to Implementation**

11:30-12:00 **Open Discussion** - *What did you learn?  What are your ideas for working with VTrans on research or future STIC grants?*

12:00-1:00 **Poster Displays Open**

TO ATTEND: *Anyone from outside of National Life should send Emily Parkany (*[*emily.parkany@vermont.gov*](mailto:emily.parkany@vermont.gov)*) your name and affiliation so that she can order name badges from NL Security, North Lobby.*

**VTrans Research Symposium & STIC-related Innovation Poster Presentations**

VISIT <http://vtrans.vermont.gov/planning/research/2017symposium> for more information (Fact Sheets, etc.) on individual research and innovation projects prior to the event.

**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
* SK1 Data Mapping Framework
* Conduct of Road Safety Audit Reviews at High Crash Locations
* Automated Speed Enforcement in Vermont
* Examining the Potential Impacts of Maintenance Investment and Capital Reinvestment in Vermont’s Roadway Infrastructure Network
* VTrans Employee Retention Study and Knowledge Management Pilot
* Case Studies of Using Unmanned Aircraft Systems to Improve Safety and Increase Efficiency
* All in One Survey-Vermont Travel
* EDC 3:  Smarter Work Zones

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

* SHRP2 C19:  Expediting Project Delivery
* Ultra-High Performance Concrete (UHPC)
* SHRP 2 R15B Identifying and Managing Utility Conflicts
* e-Construction at VTrans
* Scour Damage to Vermont Bridges and Scour Monitoring
* Using Remote Data Collection to Identify Bridges and Culverts Susceptible to Blockage During Flooding Events
* Quantifying the Vulnerability of Vermont Bridges to Seismic Loading
* The Changing Risk of Extreme Event Impacts on Vermont Transportation Infrastructure
* Collaborative Hydraulics: Advancing to the Next Generation of Engineering (CHANGE)

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

* VTrans Recycled Materials Activities
* Pavement Life
* Experimental Features
* Freeze-Thaw Durability of Pervious Concrete With Salt Exposure
* SHRP 2 R07:  Full-Depth Reclamation Performance Related Specification
* Suitability of Intelligent Compaction for Relatively Smaller-Scale Projects in Vermont
* Freeze-Thaw and Salt Durability of Pervious Concrete
* High Speed Ground Penetrating Radar for Road Pavement and Bridge Structural Inspection and Maintenance

**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
* Investigation of Northern Long Eared Bat Roosting Sites on Bridges
* Effective Establishment of Native Grasses on Roadsides in New England
* Identifying Best Practices for Snowplow Route Optimization
* Quantifying the Impact of New Capital Projects will have on Roadway Snow and Ice Control Operations

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