



THE UNIVERSITY OF VERMONT  
**TRANSPORTATION  
RESEARCH CENTER**

Faculty, staff and students affiliated with the University of Vermont Transportation Research Center will be participating in 23 presentations and activities at the 103<sup>rd</sup> Annual Meeting of the Transportation Research Board in Washington, DC this January. Their presentations and other activities are listed below. Reach out to us at [trc@uvm.edu](mailto:trc@uvm.edu) if you would like more information about the research being presented this year.

### Sunday, January 7<sup>th</sup>

1:30 pm – 4:30 pm

#### **Workshop 1069 Overcoming Challenges to Decarbonizing Transportation in Small and Rural Communities**

UVM TRC Presenters: Gregory Rowangould and Dana Rowangould

### Monday, January 8<sup>th</sup>

1:30 pm – 3:45 pm

#### **Lectern Session 2147 An Examination of Transportation Needs and Preferences Through Comparative Geographies**

Presentation: *"Having your own vehicle... it changes everything": Limited Car Access and Rural Mobility in Vermont*

UVM TRC Presenters: Sarah Grajdura, Sierra Espeland, Julia LanzDuret-Hernandez and Dana Rowangould

#### **Lectern Session 2148 6-Minute Showcase: Sustainability, Resilience, and Society**

Presentation: *When the Stakes are High: Measuring Feelings of Safety in Wildfire Evacuations*

UVM TRC Presenter: Sarah Grajdura

#### **Poster Session 2163 Travel Behavior Shaped by Urban Form, Neighborhood, and Related Factors**

Presentation: *Coping with High Prices: Evaluating the Response to Rapidly Increasing Transportation Fuel Prices in Small and Rural Communities*

TRC Presenters: Narges Ahmadnia, Erica Quallen and Gregory Rowangould

#### **Poster Session 2165 High-Value Research Projects**

Presentation: *Effectiveness of Rectangular Rapid Flashing Beacons (RRFBs) at Mid-Block Crosswalks--Vermont AT*

TRC Presenters: Parsa Pezeshknejad and Dana Rowangould

#### **Poster Session 2170 Current Issues in Air Quality and Greenhouse Gas Mitigation**

Presentation: *A Spatial Analysis of the Fuel Economy Rebound Effect Focusing in Small and Rural Communities*

TRC Presenters: Narges Ahmadnia and Gregory Rowangould

Presentation: *Multiscale Vehicle Traffic Air Pollutant Exposure and Equity Analysis in the United States using a Novel Emissions Exposure Surrogate*

TRC Presenters: Brittany Antonczak and Gregory Rowangould

Presentation: *Sustainable travel behaviors in urban and rural contexts: Who and where matters An examination of the built environment and travel behavior across the urban-rural continuum in the United States*

TRC Presenters: Harrison Schukei and Dana Rowangould

Presentation: *Systematic Literature Review Evaluating Readiness of Novel Materials and Improved Pedestrian Infrastructure to Mitigate Heat*

TRC Presenters: Morgan Boothe, Gregory Rowangould and Elizabeth Doran

3:45 pm – 5:30 pm

**Poster Session 2217 Current Research in Economics and Finance**

Presentation: *Mileage Fees as a Gas Tax Replacement: An Assessment of Public Support and Mileage Fee Rate Preference from a National Tax Survey*

UVM TRC Presenters: Clare Nelson and Gregory Rowangould

Presentation: *Can Americans Support Alternatives to The Gas Tax? An Updated National Analysis of the Role of Information and Education on Policy Support*

UVM TRC Presenters: Clare Nelson and Gregory Rowangould

**Poster Session 2225 6-Minute Showcase Posters: Sustainability, Resilience, and Society**

Presentation: *When the Stakes are High: Measuring Feelings of Safety in Wildfire Evacuations*

UVM TRC Presenter: Sarah Grajdura

**Tuesday, January 9<sup>th</sup>**

8:00 – 9:45 am

**Lectern Session 3025 Back to the Future: New Strategies for Long-Term Disaster Preparedness, Response, and Recovery**

UVM TRC Participation: Sarah Grajdura, Presiding

10:15 am – 12:00 pm

**Poster Session 3107 Dwight David Eisenhower Transportation Fellowship Program Poster (Session 2)**

Presentation: *The Effect of Relocation and the Built Environment on Household Travel*

UVM TRC Presenter: Clare Nelson

Presentation: *High-Resolution Reference Case for Assessing National Traffic-Related Emissions and Exposure Equity During the Transition to an Electric Vehicle Fleet*

UVM TRC Presenter: Meg Fay

1:30 – 3:15 pm

**Poster Session 3160 Automation, Technology, and Pedestrian Interactions**

Presentation: *Evaluating Safety and Compliance of Pedestrian Crossings in Rural Contexts: A Before and After Study of RRFBs and LED-Embedded Signs*

UVM TRC Presenters: Parsa Pezeshknejad and Dana Rowangould

**Poster Session 3171 Dwight David Eisenhower Transportation Fellowship Program Poster (Session 3)**

Presentation: *Quantifying efficiency and efficacy of purchase incentives for electric vehicles*

UVM TRC Presenter: Parker King

3:45 – 5:30 pm

**Lectern Session 3205 Transit Supply and Demand: Land Use, COVID-19, and Other Influences**

Presentation: *Transit Use During and After the COVID-19 Pandemic: The “New Normal” for Public Transit Ridership*

UVM TRC Presenters: Parsa Pezeshknejad and Dana Rowangould

**Wednesday, January 10<sup>th</sup>**

8:00 – 9:45 am

**Poster Session 3058 Young Professional Research in Sustainability, Society, and Resilience**

Presentation: *The Effects of Immigration Enforcement, Border Proximity, and Driver's License Laws on Travel Outcomes for Latine Migrant Workers*

UVM TRC Presenters: Calvin Wuthrich

Presentation: *How Local Context Defines the Identity and Future of Electric Vehicles In Vermont*

UVM TRC Presenters: Owen Palcsik

10:15 am – 12:00 pm

**Lectern Session 4060 Got a Ride?: Evaluating Disparities in Car Ownership**

Presentation: *Mobility, Community, and Connection: Transportation Experiences of Rural Latinx Migrant Workers*

UVM TRC Presenters: Julia LanzDuret-Hernandez, Sarah Grajdura and Dana Rowangould

**Poster Session 4074 Tackling Asset Management Emerging Trends to Engage, Enrich, and Empower Practitioners**

Presentation: *RFID and Wireless IoT System Development for Transportation Maintenance Operations and Asset Management*

UVM TRC Presenters: Jay Jung, Wenzhe Chen, Byung Lee and Tian Xia

3:45 pm – 5:30 pm

**Poster Session 4084 Advancing Travel Forecasting Methods and Practices**

Presentation: *Do Regional and Extra-Regional Accessibility Affect Long Distance Intercity Travel? Insights from California*

UVM TRC Presenters: Dana Rowangould and Mitchell Robinson