

2022 Spring/Summer Newsletter

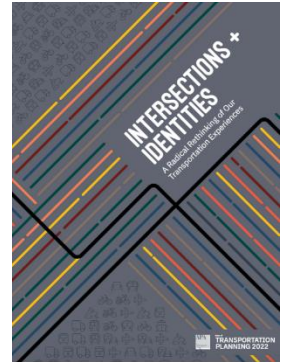
Source: University of Alberta

Feature

Evacuations and Equity – Feature in the American Planning Association's State of Transportation Planning 2022

Dr. Wong provides insights on emerging multidisciplinary approaches, strategies, and perspectives for evacuations and equity in an invited feature (page 114). "Evacuation planning can no longer be an afterthought, and resilient transportation systems are crucial in supporting thriving and prepared communities."

[Report – Open Access \(Page 114\)](#)



Source: American Planning Association

Latest Research

Understanding California wildfire evacuee behavior and joint choice making – *Transportation (2022)*

We used revealed preference data from two large California wildfires to understand the critical decision to evacuate or stay, along with a multi-dimensional choice composed of concurrent decisions of their departure time, transportation mode, route, destination, and shelter type. Results provide important nuance to wildfire decision-making and new policy directions for evacuation planning.

Authors: Dr. Stephen D. Wong, Jacquelyn C. Broader, Dr. Joan L. Walker, & Dr. Susan A. Shaheen

[Published Article](#) [Open Access](#)

Review of Resilience Hubs and Associated Transportation Needs (Working Paper)

Recently, the nascent concept of "resilience hubs" has emerged to help communities overcome climate challenges and improve well-being during disasters and everyday conditions. This paper provides an early conceptual understanding of resilience hubs, in particular their associated transportation needs, through a comprehensive literature review.

Authors: Thayanne G. M. Ciriaco & Dr. Stephen D. Wong

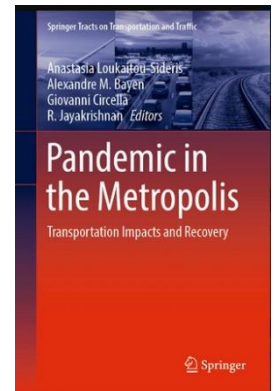
[Working Paper - Open Access](#)

The Future of Public Transit and Shared Mobility: Policy Actions and Research Options for COVID-19 Recovery in *Pandemic in the Metropolis* (Book Chapter)

This chapter summarizes a recent scenario planning exercise conducted by the University of California Institute of Transportation Studies in collaboration with the Transportation Research Board (TRB) Executive Committee from Spring to Fall 2020. The exercise convened 36 transportation experts in the United States who developed policy actions and research options to guide near- and long-term public transit and shared mobility recovery.

Authors: Dr. Susan A. Shaheen & Dr. Stephen D. Wong

[Book Chapter](#) (*Print copy available in September*)



Source: Springer

Updates

Transportation Research Board (TRB) AME80 – Community Resources and Impacts: Dr. Wong was appointed as a member of AME80 at the Transportation Research Board and will help build research and practice toward resilient communities.

Society of Fire Protection Engineers (SFPE): Dr. Wong was appointed as a member of the SFPE Wildland Urban Interface Working Group – Module 2. He will be working to increase the planning of wildfire evacuations and improve notification mechanisms for wildfires.

Bridging Transportation Researchers Conference: Thayanne Ciriaco presented her [thesis work on resilience hubs](#) at the 4th Annual BTR Conference, a low-carbon and virtual event. Dr. Wong presented his work on [travel behaviour during public safety power shutoff \(PSPS\) events](#) in California.

News

Is Alberta's capital city ready for a natural disaster? – Dr. Wong discusses ongoing work related to resilience hubs in Edmonton.

[Radio Interview with CBC News](#)

U of A research aims to help Edmonton prepare for more climate disasters – Dr. Wong talks about improving community resilience in Edmonton.

[Article in CBC News](#)

In wildfire country, towns build permanent evacuation centres – Dr. Wong provides insights on preparing communities for wildfire evacuations.

[The Globe and Mail](#)

Wildfire Research from the RESUME Group

Developing Transportation Response Strategies for Wildfire Evacuations via an Empirically Supported Traffic Simulation of Berkeley, California (2021)

[Published Article](#) [Open Access](#)

Trust and Compassion in Willingness to Share Mobility and Sheltering Resources in Evacuations: A Case Study of the 2017 and 2018 California Wildfires (2021)

[Published Article](#) [Open Access](#)

Can Sharing Economy Platforms Increase Social Equity for Vulnerable Populations in Disaster Response and Relief? A Case Study of the 2017 and 2018 California Wildfires (2020)

[Published Article](#) [Open Access](#)

A Revealed Preference Methodology to Evaluate Regret Minimization with Challenging Choice Sets: A Wildfire Evacuation Case Study (2020)

[Published Article](#) [Open Access](#)

Review of California Wildfire Evacuations from 2017 to 2019 (2020)

[Open Access](#)



Wildfire in Ft. McMurray | Source: DarrenRD, CC BY-SA