



METRANS on the Move: our weekly newsletter by students

Hello reader! Be sure to attend the TRB Young Scholars Transportation Research Webinar on 5/27. Click [here](#) to learn more!



In the News

The articles in this newsletter are prepared or accomplished by others in their personal capacity. The opinions expressed are the author's own and do not necessarily reflect the views of METRANS or its partners.



NAU Graduate Emmanuel James Inspires Future Generation

"I am a first-generation college student, so I wanted to get as far as I can in college education to inspire my family members and other siblings."

Read more [here](#).



Congratulations to Shelly Quan, 2020 WTS-LA Myra Frank Memorial Scholarship Winner

Transportation planning has taught 2020 WTS-LA Myra Frank Memorial Scholarship winner Shelly Quan something extremely important: when it comes to transportation planning all roads lead to finance.

Read the WTS-LA feature [here](#).



A Prescription for Equitable Access

By UCLA Ph.D. student, Katherine Chen, MD. Her research explores equity issues at the intersection of urban planning and population health, with a focus on reducing health disparities and improving access to opportunities for well-being through policies that shape housing, transportation, and neighborhood environments.

Read the Transfer Magazine feature [here](#).

Webinars & Online Events

Transportation Research Board (TRB) Standing Committee on Women and Gender in Transportation (AME20) Webinar Series: Young Scholars Transportation Research Webinar

Thursday, May 27th at 9:00 am PDT

Join for a series that highlights the intersection of gender-related topics with other transportation topics.

[More Info](#)

U.S. DOT Volpe Center Presents: Innovation for a Sustainable, Equitable Transportation System

Wednesday, June 2nd at 9:30 am PDT

Pete Buttigieg, Secretary, U.S. DOT, will kick off our 2021 thought leadership series.

[More Info](#)

ENO Webinar: Women at the Helm

Thursday, June 3rd at 11:00 am PDT

Jennifer Aument, Nuria Haltiwanger, Denise Roth, and Kimberly Slaughter will share their thought leadership, key insights, and personal stories about their careers in this webinar.

[More Info](#)

The 12th Annual Mineta National Transportation Finance Summit Presents: Electrifying the Transportation Future

Friday, June 11th at 10:00 am PDT

Transportation policymakers face two overlapping, once-in-a-generation opportunities: electrifying the nation's vehicle fleet and re-establishing a stable source of federal and state revenue for transportation.

[More Info](#)

The National Academies of Sciences, Engineering, and Medicine Presents: How We Move Matters: Exploring the Connections between New Transportation and Mobility Options and Environmental Health--A Workshop

Sunday, June 13th at 8:30 am PDT

This workshop will bring together experts in transportation, consumer behavior, and environmental health to share perspectives on the environmental health impact of evolving mobility options.

[More Info](#)

Fast Facts

Created for Students, by Students



Fast Facts

Cutting edge transportation research summaries
Created for students, by students

Developing Markets for Zero Emission Vehicles in Short Haul Goods Movement

Authors: Genevieve Giuliano, Maged Dessouky, Sue Dexter, Jiawen Fang, Shichun Hu, Seiji Steimetz, Thomas O'Brien, Marshall Miller, Lewis Fulton

Year: 2020

Keywords: Freight logistics and optimization Sustainability, energy, and health

What's going on?

Zero emission heavy duty trucks (ZEHDTs) have the potential to help California achieve its long-range greenhouse gas reduction goals. A key component of the state's long-range plan is to achieve a zero emission fleet of vehicles. In this report, researchers examine the tradeoffs between various types of heavy duty trucks, including diesel, hybrid electric, and battery electric. This report looks at trip data and simulations, academic literature, case studies, and interviews to understand the costs and benefits of using ZEHDTs, the market and industry perspectives on alternative fuel technologies, and their overall impacts on freight operations.



What were the findings?

The researchers developed policy recommendations for increasing the market share of heavy duty ZEHDTs and near ZEHDTs within the short haul market. They found that natural gas hybrid near zero trucks are the most cost-effective option in the short term primarily because hybrids have the same performance characteristics as diesels and have capital costs only slightly higher than diesel. ZEHDTs reduce emissions the most, but at much higher annual cost. To meet greenhouse gas emission goals, battery technology will need to be improved, vehicle prices will need to drop, subsidies and incentives will need to be implemented, and regulatory policies will need to be more flexible in relation to other types of low emission vehicles.

What's next?

State and local policymakers should support more freight research to better understand freight operations and identify potential markets for zero emission heavy duty vehicles. As the battery electric technology continues to improve and higher vehicle range is achieved, there is promise for significant zero emission market share by 2030.

Read the full report on our website:

<https://metrans.org/research/developing-markets-for-zero-emission-vehicles-in-short-haul-goods-movement>

The Pacific Southwest Region UTC conducts an integrated, multidisciplinary program of research, education and technology transfer aimed at improving the mobility of people and goods throughout the region.

Check this week's featured Fast Facts [here](#).
Looking for more Fast Facts? Check out the [Fast Facts Page on Metrans.org!](#)

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Pathways to Opportunity

Regional Modeling/Traffic Operations

OCTA

Apply by ASAP

[See more info](#)

GIS and Planning Intern

ODOT

Apply by 06/02/2021

[See more info](#)

[More Internships and Scholarships Here](#)

Principal Planner - Land Use City of Tacoma

Tacoma, WA

Apply by 06/01/21

[See more info](#)

Sr. Professional Engineer

City of Fort Worth

Fort Worth, TX

Apply by 06/12/2021

[See more info](#)

[More Job Opportunities Here](#)

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