**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](https://mailchi.mp/usc/metrans-student-weekly-news-events-7abdl38n6e-1078112) to learn more!

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**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.

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**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](https://mailchi.mp/usc/metrans-student-weekly-news-events-7abdl38n6e-1078112).

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**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](https://mailchi.mp/usc/metrans-student-weekly-news-events-7abdl38n6e-1078112).

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**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](https://mailchi.mp/usc/metrans-student-weekly-news-events-7abdl38n6e-1078112).
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
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:

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!

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

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 Internships and Scholarships Here

More Job Opportunities Here