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METRANS on the Move: Our Weekly Newsletter for Students



Secretary of the California State Transportation Agency, David Kim, November 7th meeting with students at USC.

Photo Credit: Eric Shen

Readers, welcome to this week's issue of METRANS on the Move! This newsletter is a team effort to foster knowledge and opportunities related to transportation. If you have suggestions for content – events, scholarships, jobs, and more – that you'd like to see included, just reach out to our Publisher, Danielle Dirksen, at ddirksen@usc.edu. Enjoy this week's issue, and click the button below to subscribe!

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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.

Mohammad Mozumdar Shares Research On Microsensors For Smart Roads

by **Ryan Hund, Master of Urban Planning (MUP), USC**



Traffic monitoring is an essential task for any municipal transportation agency. However, current hardware solutions are bulky and unreliable. For the last five years, Mohammad Mozumdar, Associate Professor of Electrical Engineering at Long Beach State University, has been working on a better solution.

Read more [here](#).



Testing (Wi-Fi) 1-2, 1-2

The Southern California Regional Rail Authority's Metrolink is in the process of testing software and equipment, connectivity between railcars and signal strength across its 538-mile commuter system. If you're riding the Wi-Fi test train, you'll see signs and hear announcements while you're on board the train.

Read more [here](#).



The Electric Vehicle Industry Needs To Figure Out Its Battery Problem

Electrifying transportation is one of the biggest keys to solving the looming climate crisis. As electric vehicles become more popular, they're posing another environmental challenge: what to do with their batteries once they're off the road.

Read more [here](#).

Blast From The Past Series - CityLab, 2014: What American Commuter Rail Can Learn From Paris

The great promise of autonomous cars is not that we could each



own one in our own driveway – the 21st century's version of owning your own Model T, or your own color TV, or your own bulky Macintosh – but that no one would need to own one at all.

Read more [here](#).



Tweet Time: LA Metro's A Line

Metro released a meme for some comical relief regarding the new A Line, formerly the Blue Line. More and more transit agencies have been tweeting millennial-gear content, and we are certainly enjoying it!

Read more [here](#).

For Researchers

Call for Papers: World Symposium on Transport and Land Use Research 2020 Submissions Due Friday, November 15

We are pleased to announce that the 2020 World Symposium on Transport and Land Use Research (WSTLUR) will be held in Portland, Oregon, USA, July 13-16, 2020. We seek original, full-length submissions on the designated themes, which include affordable housing and transport, Latin America, public transport, new mobilities, and access for all. Theme leaders will be in charge of the paper review and selection process. Questions about the specific themes should be directed to theme leaders. WSTLUR membership is not required to submit a paper.

Each conference registrant may be a co-author on multiple papers, but there is a limit of one presentation per registrant. Sessions will be developed from high-quality papers received and authors of a select number of papers will be invited, based upon their conference paper reviews, to resubmit their papers for a second round of reviews for publication in the Journal of Transport and Land Use.

Click below for more theme information and to submit.

[More Info](#)

EPA Research Opportunity: Biofuel Climate Change Model Validation Research Apply Immediately

Two research opportunities are currently available at the U.S. Environmental Protection Agency's (EPA) Office of Transportation and Air Quality (OTAQ). This appointment may be served at EPA Headquarters in Washington, DC or at the EPA's National Vehicle and Fuel Emissions Laboratory (NVFEL) in Ann Arbor, Michigan.

The project entails research on validation of transportation climate modeling with a focus on biofuels. The project will involve research on model evaluation techniques and on developing tools to automate comparison of model outputs with data and projections from other sources to improve evaluation and communication of EPA's modeling.

Under the guidance of a mentor, the participant will review an integrated assessment model that EPA is using for transportation/biofuel climate change analysis and review techniques to validate the model through comparison of the model's output with other data sources and projections. The participant will also research methods for automating future model validation. The participant will use an open source programming language (e.g., R, Python) to compare model outputs with other well-established sources of data on transportation fuels and agricultural commodities (e.g., prices, production, land use).

Click below for additional information and to apply.

[More Info](#)

Get Involved

LA Metro Aging and Disability Transportation Forum Thursday, November 14, 2019 from 9 am to 2 pm Pacific Union Station Ticket Concourse 800 North Alameda Street Los Angeles, CA 90012

LA Metro, Access Services and the Aging and Disability Transportation Network invite you to join Metro Board Chair James T. Butts, Supervisor Sheila Kuehl and Chief Executive Officer Phillip A. Washington for Metro's First Aging and Disability Transportation Forum.

Metro is taking a leading role in expanding accessibility in our public transit system, and delivering more mobility options with safe and equitable service to the residents of Los Angeles County. Speakers at the Forum will highlight Metro's recent accomplishments and lay out the vision and priorities for accessible transportation in the coming years.

The 2019 Aging and Disability Transportation Report summarizes demographic trends, and provides an overview of Metro's and Access Services' current programs, services, pilot projects and studies that are underway to enhance Los Angeles County transportation options for older adults and people with disabilities. Forum participants will have an opportunity to comment and share ideas on the report during interactive feedback sessions.

More Info

Please email Zhanibek Baktygali at baktygal@usc.edu to RSVP.

Fall 2019 Speaker/Webinar Series: Understanding How Women Travel **Friday, November 15, 2019 at 12 pm Pacific** **University of Southern California**

Join METRANS and PSR for a luncheon with Moderator Genevieve Giuliano, Judith McCourt, Dr. Evelyn Blumenberg, and Emily Finkel. McCourt, Blumenberg, and Finkel are part of the team behind LA County Metro's (Metro) "Understanding How Women Travel" study and report. Historically, Metro has followed a "gender-neutral" approach to service planning, without considering the unique needs and preferences of women, who comprise over 50% of their ridership. In 2018, Metro launched a first-of-its-kind study to answer these questions, with the aim to improve women's safety and comfort on transit and to attract and retain women riders to the Metro system. Please click below for more info on the event and the panel.

More Info

Please email Zhanibek Baktygali at baktygal@usc.edu to RSVP.

Center for Sustainable Cities Presents: A Discussion on Climate Change **Thursday, November 21, 2019 at 12 pm Pacific** **University of Southern California** **University Gateway 100B**

Join the USC Price School; the USC School of Cinematic Arts; and film and television director, writer, producer and professor Jeremy Kagan for a luncheon and discussion on climate change. This talk is part of a global conversation on climate. Please click below to learn more, and be sure to RSVP.

More Info

Transportation Research Board Annual Meeting: Reduced Student Costs **Prices Increase: after Saturday, November 30, 2019** **Conference: January 12-16, 2020** **Washington, D.C.**

The Transportation Research Board (TRB) 99th Annual Meeting will be held January 12–16, 2020, at the Walter E. Washington Convention Center, in Washington, D.C. The information-packed program is expected to attract more than 13,000 transportation professionals from around the world.

The meeting program will cover all transportation modes, with more than 5,000 presentations in nearly 800 sessions and workshops, addressing topics of interest to policy makers, administrators, practitioners, researchers, and representatives of government, industry, and academic institutions. A number of sessions and workshops will focus on the spotlight theme for the 2020 meeting: A Century of Progress: Foundation for the Future.

More Info

Student Transportation Consulting Volunteer Opportunity **University of Southern California**

Please see the following on behalf of USC undergraduate Reanne Aquinde: Reanne is looking to organize student members of the USC Chapter of the Institute of Industrial and Systems Engineers (IISE) to undertake transportation related problems in the field. Interested students need not already be a part of IISE but should attend or live near USC. This opportunity is intended to organize a small, voluntary student team which will then tackle a real world project that students can work on to gain practical experience. Email Reanne for more information at raqinde@usc.edu

Institute of Transportation Engineers Membership **University of Southern California**

Please see the following on behalf of USC professor and mentor, Eric Shen: "You can join ITE as a student member for free(the first year) as an undergraduate and for \$30/year as a graduate student.

The ITE-USC Student Chapter will subsidize undergraduates' paying membership fee after the first year AND graduate students' membership fee - all you have to do is to pay or renew your student membership then forward the receipt to me for reimbursement (while you are still a full-time USC student). For an added bonus, you may join WTS International as a student member. If you've signed up for ITE student member, the ITE-USC Student Chapter will also pay for your annual WTS student membership fee (\$30) as long as you are a full-time USC student and exhibiting strong interest in transportation. WTS also welcome men joining the organization."

Email Professor Shen for more information at shen.eric@gmail.com.

Internships & Jobs

Planning Intern - GIS and Graphic Design
Toole Design Group, LLC
Apply Immediately



[More Info](#)

Job Title	Agency/Firm	Deadline
GIS Data Planner	Broward Metropolitan Planning Organization	15-Nov-19
	Fort Lauderdale, Florida	
City Transportation Planners	Broward Metropolitan Planning Organization	15-Nov-19
	Fort Lauderdale, Florida	
Student Assistant - GIS/Traffic Operations Division (# CT30118E)	Caltrans	17-Nov-19
	Los Angeles, CA	
Transportation Engineer (#JC-180111)	Caltrans	18-Nov-19
	Sacramento County, CA	
Student Assistant - Engineering Traffic Operations Division (# CT30118E)	Caltrans	18-Nov-19
	Los Angeles, CA	
Mobility Solutions Program Advisor (# 2019-01825)	City of Seattle	19-Nov-19
	Seattle, WA	

We found **90+ more fresh positions** for you!

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METRANS Student Newsletter Staff

Danielle Dirksen | Publisher | ddirksen@usc.edu
 Kavina Patel | Editor-In-Chief | kavinayp@usc.edu
 Adylbek Abdykalikov | Lead Editor | abdykali@usc.edu
 Beisen Ussenov | Career Opportunities Editor | ussenov@usc.edu

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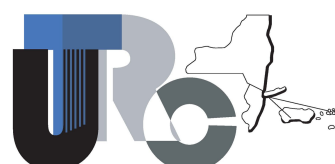
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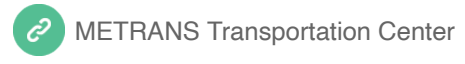


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