

METRANS

Transportation Center

USC CSULB

METRANS on the Move: Our Weekly Newsletter for Students



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, internships, jobs, and more –that you'd like to see included, just reach out to our Editor-in-Chief Lauren Mullarkey-Williams at mullarke@usc.edu or any of our student staff listed at the end of the newsletter. 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.

Transportation Students Lunch with New Metrolink CEO, Stephanie Wiggins

By: Kidada Malloy, UCLA MURP



On Friday, February 22nd, generous corporate sponsorships sent students from USC and UCLA to the Women's Transportation Seminar (WTS) luncheon welcoming the new Southern California Regional Rail Authority (Metrolink) Chief Executive Officer, Stephanie Wiggins. This notable achievement is the first time the Metrolink Board of Directors has hired a woman and an African American to lead the agency.

[Read more here.](#)

The Planet Can't Survive Our Transportation Habits



A landmark report by the UN Intergovernmental Panel on Climate Change released Monday spelled out a grim planetary future in no uncertain terms. If greenhouse gases warm the atmosphere by as much as 1.5 degrees Celsius, the most dire effects of climate change will be unleashed. Coastlines will be submerged, droughts and wildfires exacerbated, coral reefs exterminated, severe food shortages and poverty deepened. And humanity has only a fast-closing 12-year window to make the changes necessary to avoid this fate.

[Read more here.](#)

To Build the Cities of the Future, We Must Get Out of Our Cars



The purpose of cities is to bring people together. In the 20th century, we blew them apart. One day last year, Peter Calthorpe took me on a drive through some of the wreckage. He wanted to show me how he proposes to make cities whole again. "If you really want to affect environmental outcomes and social outcomes, it's not shaping a single building that matters," he says. "It's shaping a community."

[Read more here.](#)



Streets for All Coalition Unveiled to Advocate for Safe, Clean Mobility

During a featured South by Southwest (SXSW) session dubbed "The Future of Transportation," panelists unveiled the Streets for All Coalition, a group intended to advocate for "improved mobility, equitable access and reduced car dependence in communities everywhere." The coalition will share expertise and best practices to execute on a number of principles, such as supporting access to sustainable modes of transportation; advancing Vision Zero principles; protecting pedestrian rights-of-way and sharing data.

Read more [here](#).

Get Involved

3 Revolutions Policy Conference: Shared - Autonomous - Electric March 18-19, 2019 9:00 am - 5:30 pm Pacific UC Davis Conference Center, 550 Alumni Ln., Davis, CA 95616

The 3 Revolution Policy Conference is the only major conference that addresses policy solutions for vehicle automation, shared mobility, and electrification. Last year's 3 Revolutions Policy Conference sold out, with more than 350 attendees.

This year, we're thinking bigger. Not just about crowd size (although we did reserve a slightly larger room!), but also about impact. We're convening everyone with a stake in transportation—representatives of local, state, and national governments, automakers, shared mobility companies, academics, and community advocates—to build a network committed to real policy outcomes.

We invite you to join us in building a path to the future. We need leaders from all sectors to collaborate in designing policies and practices in the best interest of society. Innovation in transportation is sweeping our cities and societies, and we must be prepared. Governments need ongoing and consistent support to hasten the adoption of electrification and shared mobility strategies and to direct automation toward the public interest. Together, we can help.

For questions, contact 3Rev@ucdavis.edu.

More Info

METRANS 2019 Speaker Series: Critical Perspectives and Recent Research on the Travel Behavior Implications of Disruptive Trends and Autonomous Vehicles Tuesday, March 19, 2019 12:00 pm - 1:30 pm Pacific USC - RGL 100

Self-driving or autonomous vehicles (AVs) are predicted to dramatically reshape the design and use of our transportation systems. Learn about some of the key potential travel behavioral impacts (on latent demand, vehicle ownership, travel time use, vehicle-miles-traveled, transit ridership, and overall travel demand) of autonomous vehicles and other disruptive trends.

Distinguished Speaker:

Ronald T. Milam, AICP, PTP, Director of Evolving the Status Quo at Fehr & Peers

To RSVP, email [Adyibek Abdykalikov](mailto:Adyibek.Abdykalikov@usc.edu) at abdykali@usc.edu.

More Info

Voices for a Sustainable and Equitable Future: Paying for Pollution - Why a Carbon Tax is Good for America Tuesday, March 19, 2019 5:30 pm Pacific USC - RGL 100

The threats posed by global climate change are widely recognized and carbon emissions are the major source of greenhouse gases accumulating in the atmosphere. Metcalf discusses his new book *Paying for Pollution: Why a Carbon Tax is Good for America* where he examines the economic and social costs of climate change and the challenges of concerted action to reduce future losses due to damages of higher temperatures and more extreme weather. He argues that there is a convergence of social, economic, environmental, and political forces that provides an opening for a new approach to climate policy, one based on market principles that can appeal to politicians across the political spectrum. As he does in his book, Metcalf lays out the argument in simple, non-technical language accessible to anyone concerned about our climate system.

Distinguished Speaker:

Gilbert Metcalf, John DiBiaggio Professor of Citizenship and Public Service and Professor of Economics at Tufts University

More Info

WTS-OC Proudly Presents: San Diego Association of Governments Wednesday, March 20, 2019 11:30 am - 1:30 pm Pacific The Promenade & Gardens 1570 Scenic Ave., Costa Mesa, CA 92626

Newly appointed San Diego Council of Governments (SANDAG) Executive Director Hasan Ikharta oversees a staff of 375 people and a \$1.3

billion FY 2019 budget to facilitate the efficient movement of people and goods. As part of its 2019-2050 Regional Plan, San Diego Forward, SANDAG is developing a plan for a growing community that provides a vision for the region's future growth and development. Please join us as we honor our distinguished guest as he speaks about SANDAG's new visionary plan for transportation in San Diego County.

Distinguished Speaker:

Hasan Ikharta, Executive Director, San Diego Association of Governments

Click the link below for more info.

More Info

**USC Society of Women Engineers (SWE):
Engineering is SWEet
Saturday, March 23, 2019 10 am - 12 pm Pacific
USC Michelson Center for Convergent Bioscience**

USC SWE is looking for volunteers to work with the American Society of Civil Engineers as the two groups put on a two-hour long educational experience to introduce engineering to middle-school aged girls. This is a great opportunity to gain service hours on-campus and share your passion for engineering with the next generation of female leaders.

Email Dominie Miyasato at dmiyasat@usc.edu to sign up to volunteer.

More Info

**METRANS, UCI, and PSR Field Trip:
Anaheim Regional Transportation Inter-modal Center
Saturday, March 23, 2019 11:30 am - 2:30 pm Pacific
Anaheim, CA**

Join us for a behind-the-scenes guided tour of the Anaheim Regional Transportation Inter-modal Center! Better known as ARTIC, this station provides rail, bus, taxi, and other services for daily commuters in Southern California. With an iconic design and stunning lighting, ARTIC is also a popular location for filming and photography.

Students are invited on an optional roundtrip MetroLink trip from LA Union Station, with a 10:50 am departure. Complimentary train tickets are in limited supply. Lunch is provided thanks to our generous cosponsors, MetroLink and KOA.

Email Adyl Abdykolikov at abdykali@usc.edu to RSVP for this event.

More Info

**METRANS 2019 Speaker Series:
Changing Workforce Development Needs for Regional Transportation Planning Agencies in California
Wednesday, March 27, 2019 12:00 pm - 1:30 pm Pacific
USC - RGL 101**

The transportation industry faces future workforce challenges, including a lack of trained personnel in fields such as engineering, construction management, and intelligent transportation systems. In California, the workforce capacity of Metropolitan Planning Organizations (MPOs) in particular was challenged by the 2008 passage of Senate Bill (SB) 375 which created a demand for planners with new skill sets required to comply with the legislation's requirements. This presentation introduces findings from a research project seeking to understand how fundamental changes from SB 375 and other legislative mandates have impacted MPOs from a workforce standpoint, including changes to the recruitment process for new hires and what they mean for the curriculum content in college and university programs.

Distinguished Speaker:

Thomas O'Brien, Executive Director, Center for International Trade and Transportation, LBSU

To RSVP, email Adylbek Abdykalikov at abdykali@usc.edu.

More Info

**2019 Eberhardt Rehtin Keynote Lecture:
IE + IT: A Match Made for Innovation by Juan Perez
Friday, April 5, 2019 2 pm Pacific
USC Hotel Center Ballroom**

Few relationships are more mutually beneficial than the one between industrial engineering (IE) and information technology (IT). The trick? Building a structure of culture that allows IE and IT to operate as allies instead of adversaries.

In this keynote, Juan Perez will share how wearing two hats allows him to drive innovation at UPS, the logistics leader that's really a technology company with trucks.

Distinguished Speaker:

Juan Perez, Chief Information & Chief Engineering Officer, UPS

To RSVP, email ise.chair@usc.edu.

More Info

METRANS 2019 Speaker Series:
Ghost Cars and Fake Obstacles: Automated Security Analysis of Emerging Smart Transportation Systems
Wednesday, April 10, 2019 2 pm - 3 pm Pacific
USC

Transportation systems today will soon be transformed profoundly due to two recent technology advances: Connected Vehicle (CV) and Autonomous Vehicle (AV). Such transformation leads to the creation of a series of next-generation transportation systems which can substantially improve the quality of our everyday lives.

However, this also brings new features and operation modes into the transportation ecosystem, e.g., network connectivity and machine learning based sensing, which may introduce new security problems and challenges. In this talk, Qi Alfred Chen will describe my current research that initiates the first effort towards systematically understanding the robustness of the software-based control in CV and AV systems.

Distinguished Speaker:

Qi Alfred Chen, Assistant Professor in the Department of Computer Science at UC Irvine

To RSVP, email Adylbek Abdykalikov at abdykali@usc.edu.

More Info

EXP Internship Program: Powered by Prologis
Interviewer Interest Due: Wednesday, April 10, 2019
Event: Tuesday, April 16 2019 8 am - 1 pm Pacific
The Carson Center
801 E. Carson Street
Carson, CA 90745

Here's your chance to help students prepare for success! We're looking for interviewers to conduct mock interviews with our 11-grade students. This will help the students in the EXP Internship Program to prepare for their employer interviews and get first-hand interactions with professionals.

Sign up for one (or more!) of the following time blocks: 8-10 am, 10am-12pm, 11am-1pm. Professionals are welcome to bring interested colleague(s). Light refreshments will be provided.

To sign up, email Megan Fowler at megan@expfuture.org.

More Info

TRB Webinar: Evaluation of Superheavy Load Movement on Flexible Pavements
Tuesday, April 23 2019 11:00 am - 12:30 pm Pacific

This webinar will examine procedures for analyzing the impacts of superheavy load (SHL) movement on flexible pavements developed under a U.S. Federal Highway Administration-sponsored research project*. SHL hauling units are much larger and heavier than standard trucks and may involve gross vehicle weights in excess of a few million pounds, which at times requires specialized trailers and components with nonstandard spacing between the tires and axles.

The presenters will discuss analysis methods -- such as subgrade bearing failure analysis, sloped pavement shoulder failure analysis, buried utility risk analysis, localized shear failure analysis, deflection-based service limit analysis, and cost allocation analysis -- to determine whether a pavement is structurally adequate to sustain SHL movement. They also will describe the SuperPACK tool developed to conduct this analysis.

Distinguished Speakers:

Elie Hajj, University of Nevada, Reno
 Raj Siddharthan, University of Nevada, Reno
 Hadi Nabizadeh, University of Nevada, Reno
 Seyed-Farzan Kazemi, University of Nevada, Reno

For registration questions, contact Reggie Gillum at RGillum@nas.edu.

More Info

Scholarships & Academic Opportunities

Eno Center for Transportation: 2019 Transit Mid-Manager Seminar
Application Deadline: March 22, 2019
Course Dates: July 15-19, Aug. 26-30, or Oct. 21-25, 2019

Enrollment is open for Eno's 2019 Transit Mid-Manager (TMM) Seminar. This is an intensive, weeklong course that provides mid-managers in the transit industry with the leadership and management skills needed to move their career forward. Apply today!

With classes held in Salt Lake City, Vancouver, and Pittsburgh, this seminar is an opportunity to join a cohort of like-minded, emerging leaders in the transit industry. The course structure and content will be the same in all three locations. Pick a city and get ready to expand your skill set!

Applications are accepted on a rolling basis, so the earlier you apply, the more likely you are to receive your first choice of location..

More Info

**2018-2019 Airport Cooperative Research Program (ACRP):
University Design Competition for Addressing Airport Needs**
Submission Deadline: Monday, April 29, 2019

The Airport Cooperative Research Program (ACRP), a program of the Transportation Research Board (TRB) of the National Academies of Sciences, Engineering, and Medicine, is sponsoring a national competition for universities that engages students in addressing issues relating to airports and the National Airspace System. The Competition builds upon the former FAA Design Competition for Universities which has now become an ACRP program funded by the FAA. The Competition is managed for the ACRP by the Virginia Space Grant Consortium of Hampton, Va.

This Competition challenges individuals and teams of undergraduate and/or graduate students working with faculty advisors at U.S. colleges and universities to consider innovative approaches related to airport issues. Students can win cash prizes for their winning innovative design solutions. First place winners present their work at a national award ceremony. Full details are provided in the competition guidelines.

This Competition focuses on design solutions in the following broad areas: Airport Operation and Maintenance, Runway Safety/Runway Incursions/ Runway Excursions, Airport Environmental Interactions, and Airport Management and Planning. Some specific challenge areas are defined in the Technical Design Challenges section of the guidelines. Students are not limited to the suggested topical areas listed. They are free to propose design solutions based on other topics that fit the four broad challenge areas.

For questions, email ACRP@odu.edu or click [here](#) for more information.

More Info

**USC Sol Price Center for Social Innovation:
Southern California Symposium**
Symposium: March - May 2019

The Southern California Symposium, the Price Center for Social Innovation's executive education program, is an exceptional opportunity for learning, collaboration and professional growth over a short time frame. A concentrated and intense experience that will not wreak havoc on your calendar, the Symposium starts the third week of March and is finished by the first week of May. The time in between will prove unforgettable.

Apply before Friday, December 14th to waive the application fee. Additional fee waivers may be available.

For more information, check out the video at the link below or register [here](#).

More Info

**2019 I-NUF:
8th METRANS International Urban Freight Conference**
Abstracts Due: Wednesday, May 1, 2019
October 16-18, 2019
Hotel Maya, Long Beach, CA

The purpose of I-NUF is to provide a forum for sharing emerging, multi-disciplinary research on all aspect of freight in metropolitan areas. We are soliciting abstracts for conference presentations as well as papers.

We are soliciting abstracts for both conference presentations and papers on the following topics: Local/last mile pickup and delivery, Trade nodes and hubs - ports, airports, distribution hubs, Freight modes - trucking, rail, water, Urban modeling and planning, New technology, Changing consumption, production and spatial organization, and Best practices.

Sustainability is a cross-cutting theme. We welcome papers on environmental impacts or mitigation strategies in all thematic areas. We also welcome proposals for special sessions.

Please submit abstracts [here](#) and send proposals for special sessions to Alix Traver at alix.traver@csulb.edu.

More Info

**2019 Transportation Research Forum:
60th Diamond Jubilee**
May 2-3, 2019
1001 16th St. NW Washington, D.C. 20036

Join transportation practitioners, regulators and researchers from the DC region and across the nation as they gather in Washington, D.C. May 2 -3, 2019. Attendees will learn the best in current transportation research, applied practices and innovations which are impacting public sector policy initiatives, enhancing existing markets, and creating new market opportunities to meet current demands and future expectations in the transportation arena.

Through a combination of plenary sessions, notable speakers, research presentations and policy discussions, transportation professionals from a cross-section of modes and sectors will come together to share ideas, explore current research and policy issues, and build networks. Field trips before and after the conference program will take you behind the scenes to several DC-based transportation systems and facilities.

More Info

Young Researchers' Conference 2019
Saturday, May 26, 2019
IIT Bombay, India

WCTRS-Y is a one-day conference which will be held on the first day of the World Conference on Transport Research (WCTR), at the Indian Institute of Technology Bombay, India. Dedicated to the next generation of transport academics, professionals and experts, the WCTR-Y presents the work and achievements of PhD students, post-doctoral fellows and young researchers, giving them the opportunity to play a

major role in the scientific progress, and to discuss and interchange on new developments and ideas in transportation.

In addition to the presentation of a limited number of selected high-quality conference papers, WCTR-Y will also include special sessions targeted towards the academic and professional development of young researchers during which they will be able to interact with and learn from their peers and seniors.

More Info

UITP Global Public Transportation Summit

June 9-12, 2019
Stockholm, Sweden

With almost 130 years of history behind it, the UITP Global Public Transport Summit proudly remains the world's biggest event dedicated to sustainable mobility. Covering all urban and regional transport modes across the globe, the Summit combines a diverse program of leading Congress sessions and an outstanding Exhibition full of the latest innovations, solutions and products. The theme for the 2019 Global Public Transport Summit is 'The Art of Public Transport'.

This event takes place every two years, with the congress showcasing innovative developments and good practices, whilst the exhibition provides an overview of the latest trends in products related to public transport. The Poster session is the main format used to include in our program areas related to innovation in research, R&I and pilot projects within the public Transport Sector. Also, as a participant you will be considered as speaker and benefit from the discounted rates and access to all events (conditions apply).

For more information, contact Hilia Boris Iglesia at hilia.boris.iglesia@uitp.org.

More Info

A limited number of Student Scholarships for Ph.D. students, and Volunteer Positions for Graduate Students are available. Both positions waive the student registration fee.

56th IMCL Conference on A Healthy City for All

June 17-21, 2019
Sentinel Hotel, Portland, OR

We are delighted to welcome delegates to the 56th International Making Cities Livable Conference to Portland, and thrilled by the conference theme, "A Healthy City for ALL." This is an effort close to the heart of all Portlanders as we introduce strategies to make our neighborhoods healthier places to live, as we expand our programming to continue to produce housing units and to compassionately address homelessness.

This Conference will be a landmark event, with an unprecedented gathering of world-renowned experts in planning, urban design, public health, architecture, social sciences, civic government, and allied fields.

Interested students should send their resume, a short statement (250 words) why the conference is of interest to them, and to which program they are applying (Scholarship or Volunteer) before March 1 to suzanne.lennard@livablecities.org.

More Info

6th International Conference on Women's Issues in Transportation

September 10-13, 2019
The Beckman Center, Irvine, CA

TRB is sponsoring the 6th International Conference on Women's Issues in Transportation (WIIIT 2019) on September 10-13, 2019 in Irvine, California. This conference explores women's perspectives, challenges, achievements, and opportunities with respect to travel and transportation.

This conference also provides an update on the progress and challenges in relation to women and mobility; explores how gender equality practices in transportation are increasing business and economics development; exchanges ideas on how public agencies can incorporate good gender equality policies and practices with approaches to oversee efforts and measure performance; and examines methods to address safety and security of women who are employed with or using transportation systems.

For more information, click the link below or register [here](#).

More Info

Massive Open Online Course (MOOC) on Sustainable Urban Freight

Open through September 2019

We are happy to announce the re-run of the successful Sustainable Urban Freight Transport MOOC on edX as of 4th December 2018. This time the MOOC is presented as a self-paced course, students and professionals can access the free course till September 2019.

The MOOC is the result of a collaboration between 8 partners of the global COE-SUFS network. It provides a unique cross-cultural introduction to city logistics, as experienced around the world (Netherlands, Japan, India, UK, Australia, South-Africa and Sweden).

For more information, contact Tharsis Teoh at t.g.h.teoh@tudelft.nl or click the link below.

More Info

Internships & Jobs

This Week's Featured Opportunities

Transportation Demand Management Internship Beaverton, OR



[More Info](#)

Job Title	Agency/Firm	Deadline
Assistant/Associate/Associate Civil Engineer (Open & Promotional) (# N020K)	County of San Mateo	03/26/2019
	San Mateo, CA	
Associate Transportation Planner (# JC-149102)	Caltrans	03/28/2019
	Sacramento, CA	
Field Surveyor (# JC-149319)	Caltrans	03/29/2019
	San Diego, CA	
Associate Civil Engineer (Development Engineer)	City of Livermore	04/01/2019
	Livermore, CA	
Civil Engineer (# 527515600)	Federal Aviation Administration	04/04/2019
	El Segundo, CA	
Assistant Civil/Associate Civil Engineer (Traffic) (# 2018-00065)	City of Fairfield	04/22/2019
	Fairfield, CA	
Graduate Research Awards	Transportation Research Board	05/15/2019
	Washington, DC	

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

[Click here for more Jobs and Internships](#)

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