

# 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, 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](mailto: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.



### Students Go Behind-the-Scenes at New Gerald Desmond Bridge Project

By: Micha Kempe, USC 2019

On February 21, METRANS students, faculty, and staff toured the Gerald Desmond Bridge Replacement Project. The current, aging Gerald Desmond Bridge is a through arch bridge that connects Terminal Island to Long Beach. The replacement project, expected to cost around \$1.5 billion, started in 2013 and is set to be completed in late 2019. The new bridge is slated to be one of the tallest cable stayed bridge in the United States.

Read more [here](#).



### ITS-Irvine Wins First Prize in Transportation Forecasting Competition

UC Irvine team "Traffic Flaw Theory" is the WINNER of TRANSFOR19. The team consisted Dr. Jared Sun, Yiqiao Li, Pratiik Malik, Lu Xu, and Dr. Qinglong Yan at ITS-Irvine. The international competition challenged the teams to develop short-term traffic forecasting models to predict the five-minute average speed on a road section along Chang'an North Road in Xi'an, China.

Read more [here](#).



### Despite 'Car-Free' Hype, Millennials Drive a Lot

Millennials, so famous for killing things, were poised to deliver the death blow to America's auto addiction. We were supposed to put off our driver's licenses, choose Lyfts over car loans, and settle in cities rather than suburbs, using mass transit and bike lanes instead of the traditional private car. We were supposed to make greener choices than our gas-guzzling older kin.

Read more [here](#).

### Do All Roads Lead to Congestion Pricing?

One remedy for car-clogged cities is congestion pricing, charging drivers a fixed or fluctuating fee to access roads prone to rush-hour backups. The interest in pricing access to roads has only



intensified as federal funding evaporates for transit improvements and decaying infrastructure, and traffic jams bleed beyond rush hours into weekend and holiday travel.

Read more [here](#).

## Get Involved

### Strategic Data Project at Harvard Information Session Tuesday, April 2, 2019 12 pm - 1 pm Pacific USC - RGL 304

The Strategic Data Project (SDP) at Harvard is seeking talented and passionate Education Researchers for their signature Fellowship Program. At SDP, we are passionate about aligning talented education researchers with paid fellowship opportunities to use their data and leadership skills to make a social impact. We work with schools, state departments of education, and other organizations across the U.S. that are looking for driven SDP Fellows to solve critical problems using data.

To learn more, visit the SDP [here](#).

### More Info

### 2019 Eberhardt Rechtin 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 [jse.chair@usc.edu](mailto:jse.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 [Abdybek Abdykalikov at abdykali@usc.edu](mailto:Abdybek Abdykalikov at abdykali@usc.edu).

### More Info

### METRANS 2019 Speaker Series: Lunch with a Leader - Emerald Archer Thursday, April 11, 2019 12 pm Pacific USC - RGL 308

Join us to hear personal testimonies and witness a compelling voice for education and action. Emerald Archer, PhD, was named Director of the Center for the Advancement of Women in early 2017. As Director, Dr. Archer is dedicated to gathering data across the University's departments, as well as through her own original research. In this role, Dr. Archer is a strong advocate for solutions to persistent gender inequities.

#### Distinguished Speaker:

Emerald Archer, PhD, Director of the Center for the Advancement of Women

To RSVP, email [Anne Johnson at annemjoh@usc.edu](mailto:Anne Johnson at annemjoh@usc.edu).

## More Info

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**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](mailto:megan@expfuture.org).

## More Info

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**WTS Orange County April Luncheon Featuring OCTA**  
**Wednesday, April 17 2019 11:30 am - 1:30 pm Pacific**  
**The Promenade & Gardens**  
**1570 Scenic. Ave. Costa Mesa, CA 92626**

Under the direction of the Orange County Transportation Authority's (OCTA) 17-member Board of Directors, Darrell Johnson, Chief Executive Officer of OCTA, is responsible for a more than \$1.2 billion annual budget, implementing planning, financing and coordination of Orange County's freeways, street and rail development, as well as managing countywide bus, commuter-rail and paratransit services, and operation of the 91 Express Lanes. He leads an agency of 1,500 employees responsible for delivering projects, programs and services to improve mobility for more than 3 million county residents.

**Distinguished Speakers:**

Darrell Johnson, OCTA CEO

## More Info

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**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](mailto:RGillum@nas.edu).

## More Info

## Scholarships & Academic Opportunities

**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](mailto:ACRP@odu.edu) or click [here](#) for more information.

### More Info

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#### 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

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#### 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](mailto:alix.traver@csulb.edu).

### More Info

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#### 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

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#### IBTTA Foundation Scholarship Program Applications due: May 9, 2019 IIT Bombay, India

The International Bridge, Tunnel, and Turnpike Association (IBTTA) Foundation has established a scholarship program to assist current undergraduate students pursuing a degree in one of the eligible fields listed below.

Applicants to the IBTTA Scholarship Program must be current undergraduate college students who have completed at least two full semesters of undergraduate coursework at the time of application (30 credit equivalent) and who are pursuing a degree in one of the following fields: Engineering, City and Regional Planning, Construction Management, Public Policy, or Public Administration. Applicants must also be planning to enroll in full-time undergraduate study at an accredited four-year college or university for the entire upcoming academic year and have a minimum grade point average of 2.5 on a 4.0 scale (or its equivalent). International students may apply.

To learn more about the eligibility, awards, and how to apply, click [here](#).

### More Info

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#### 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

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#### 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](mailto:hilia.boris.iglesia@uitp.org).**

### More Info

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**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 56<sup>th</sup> 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](mailto:suzanne.lennard@livablecities.org).**

### More Info

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#### Antwerp Summer University 2019: Antwerp Summer School on Urban Logistics

**September 19-23, 2019**  
**University of Antwerp, Belgium**

Summer school on planning and managing the urban transport in urban areas under a dynamic context as today logistics: key for city sustainable development. An intensive immersion into the world of urban logistics, based on an introductory module covering all aspects of urban logistics (week 1) and an optional assignment preparation week (week 2) focusing on innovation and sustainability in the Industry in all its facets.

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

### More Info

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#### 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 (WiiT 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

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**2019 Mobility 21 Southern California Transportation Summit: Beyond the Limits**  
**Friday, September 27, 2019 7:30 am - 4:30 pm Pacific**  
**Disneyland Hotel**  
**1150 Magic Way, Anaheim, CA 92802**

Save the date for Mobility 21's 2019 Summit! Mobility 21, Southern California's premier transportation coalition, is currently seeking sponsorships for their upcoming annual conference. Registration information is coming soon.

For more information, visit Mobility 21's website [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](mailto:t.g.h.teoh@tudelft.nl) or click the link below.

[More Info](#)

## Internships & Jobs

### This Week's Featured Opportunities

**Airport Cooperative Research Program**  
**Multiple Locations, USA**



[More Info](#)

Job Title	Agency/Firm	Deadline
<a href="#">Junior Civil Engineer (# 19-010)</a>	City of Tracy	04/11/2019
	Tracy, CA	
<a href="#">Associate Transportation Planner (# JC-151238)</a>	Caltrans	04/12/2019
	Sacramento, CA	
<a href="#">PID Program Associate Planner (# JC-151007)</a>	Caltrans	04/12/2019
	Alameda, CA	
<a href="#">Engineer I/Department of Transportation (# 1900404)II -</a>	City of San Jose	04/19/2019
	San Jose, CA	
<a href="#">Transportation Demand Management Coordinator</a>	Southeastern Wisconsin Regional Planning Commission	04/22/2019
	Waukesha, WI	
<a href="#">Transportation and Traffic Manager (# 18-00268)</a>	City of Sunnyvale, CA	04/29/2019
	Sunnyvale, CA	

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

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

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